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driven discovery in
mineralogy and
crystallography 13

~~Rarest Gemstones~~

~~and Minerals Ever~~

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Goldschmidt

classification *Quick*

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Crystals and

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does a Geologist

do? Mineralogy - 2 |

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Forms, Miller

Indices, Symmetry

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geochemistry of the
Ge-rich coal from the
Wulantuga Ge ore
deposit, Inner

Mongolia, China: New
data and genetic
implications Author
links open overlay
panel Shifeng Dai a
Xibo Wang a Vladimir
V. Seredin b James
C. Hower c Colin R.
Ward d Jennifer M.K.
O'Keefe e Wenhui

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Huang f Tian Li a Xiao

Li a Huidong Liu a

Weifeng Xue a Lixin

Zhao a

~~Petrology,
mineralogy, and
geochemistry of the
Ge-rich ...~~

Mineralogically, the
HCS consists of
quartz, clay, pyrite,
calcite, rozenite,
anatase and gypsum

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which are the source of ash and most major elements. The HCS was geochemically analyzed on a whole coal and ash basis for 11 major elements and 51 trace and rare-earth elements (REE).

~~Petrology, mineralogy
and geochemistry of
Hemrin Coal Seam ...
Bulletin of Mineralogy~~

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Mineralogy And

Geochemistry is a
peer-reviewed

scientific journal. The

scope of Bulletin of

Mineralogy Petrology

and Geochemistry

covers Economic

Geology (Q3),

Geotechnical

Engineering and

Engineering Geology

(Q3), Geochemistry

and Petrology (Q4).

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Bulletin of Mineralogy
Petrology and
Geochemistry Journal

...

Abstract. Coal from the deposit of Plakia, Island of Crete, Greece, was examined petrologically for the determination of rank, maceral composition, and trace element

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geochemistry. The

coal is of lignite to
subbituminous B rank
(%R_o,ran =

0.36-0.44). Some

samples are rich in

resinite.

~~Petrology,~~

~~mineralogy, and~~

~~geochemistry of~~

~~lignites from ...~~

Eby, G. N.

(2004) Petrology,

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Mineralogy, And
geochronology, and
Geochemistry of the
Of The East
Beemerville alkaline
complex, northern
New Jersey. In Puffer,
J. H. and Volkert, R.
A. (eds.)
Neoproterozoic,
Paleozoic, and
Mesozoic Intrusive
Rocks of Northern
New Jersey and
Southeastern New

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Petrology,
Geochronology,
Mineralogy, and
Geochemistry of ...
Edward S. Grew;
Mineralogy, Petrology
and Geochemistry of
Beryllium: An
Introduction and List
of Beryllium Minerals.
Reviews in
Mineralogy and

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Geochemistry ; 50 (1):

1–76. doi: <https://doi.org/10.2138/rmg.2202>.

50.01. In 1996, in

collaboration with

Lawrence Anovitz, I

edited Boron

Mineralogy, Petrology

and Geochemistry,

volume 33 in the

Reviews in

Mineralogy series, a

book that has been

reprinted with

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addenda in 2002

(further addenda and
corrections are posted
at <http://www.minsocam.org> ...

~~Mineralogy, Petrology
and Geochemistry of
Beryllium: An ...~~

Petrology,
mineralogy, and
geochemistry of
lignites from Crete,
Greece Mineral

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matter in the coals consists predominantly of silicate and sulphur-bearing minerals. The low temperature ash (LTA) is dominated by quartz, illite and gypsum, whereas the mineralogy of the high temperature ash (HTA) is comprised of silicates, Fe-bearing minerals ...

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geochemistry of
lignites from ...

Mineralogy and
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manuscripts from the
classical fields of
crystallography,
mineralogy, petrology,
geochemistry, as well
as their applications in
academic

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experimentation and
research, materials
science and

Geochemistry
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engineering, for
technology, industry,
environment, or

society. The journal

strongly promotes

cross-fertilization

among Earth-scientific

and applied materials-

oriented disciplines.

~~Mineralogy and~~

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~~Petrology | Home~~

The mineralogy, petrology, and geochemistry of submarine coals and petrified tree trunks from the Sozopol Bay were investigated.

The coals are lignites of Lower–Middle Miocene age. The petrified trunks are 40 cm up to 2 m high, some of which are in

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growth position and
others are fallen.

~~Petrology,
mineralogy, and
geochemistry of
submarine coals ...~~

Geochemistry,
Mineralogy and
Petrology acquires
manuscripts for
Volume 50 (2013)!
Deadlines only apply
for the current issue,

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but next issue
preparation starts
immediately after that.
Subscriptions. To
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Thomas Kerestedjian

~~Geochemistry,
Mineralogy and
Petrology
Volcanology,~~

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Petrology or mineral

resources, typically
combining field work,
petrography, and

analytical lab work;

Cosmochemistry and
isotope geochemistry,
usually involving lab
work on terrestrial or
extraterrestrial

samples;

Experimental work in
petrology or mineral
physics with

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Implications for And
terrestrial or planetary
Geochemistry
processes
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~~Major in Mineralogy
and Geochemistry—
Department of Earth~~

...

This Special Issue is
open to all original
research on
mineralogy,
petrography,
geochemistry, and

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Diagenesis of

carbonate minerals

and rocks. Integrated

research with multiple

approaches that lead

to new insights and a

better understanding

of calcite mineralogy,

with respect to the

diagenesis of

limestones and

processes of

dolomitization, are

especially welcome.

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"Mineralogy,
Petrology,
Geochemistry and ...

Scientific interests of
Department's staff are
closely connected to
mineral raw materials,
mineralogy, petrology
of magmatic,
metamorphic and
sedimentary rocks,
sedimentology,

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biogeochemistry,

technical petrography,

geoarchaeology,

archaeometry and

environmental

protection. Scientific

activities in the

academic year

2017/2018 ...

~~Department of~~

~~Mineralogy, Petrology~~

~~and Mineral~~

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Mineralogy And
Resources
Volume 33: Boron:
Mineralogy,
Petrology, and
Geochemistry

Lawrence M. Anovitz
and Edward S. Grew,
editors 1996, 2002 i-
xx + 864 pages. ISBN
0-939950-41-3;
ISBN13

978-0-939950-41-6.

At the time of the first
printing (1996),

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Mineralogy And

interest in the element boron was growing rapidly. We felt that it

was an opportune

moment to ask

investigators active in

...

~~Volume 33: Boron:~~

~~Mineralogy,~~

~~Petrology, and~~

~~Geochemistry~~

Petrology is the study

of rocks, and,

Page 33/85

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Mineralogy And
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because most rocks
are composed of
minerals, petrology is
strongly dependent on
mineralogy.

~~Geology – Petrology |~~

~~Britannica~~

Society for the
advancement of
mineralogy,
crystallography,
geochemistry, and
petrology, and

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Mineralogy And
uses in other
Geochemistry
sciences, industry,
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and the arts.

~~Mineralogical Society
of America~~

~~Mineralogy, Petrology~~

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Petrology

(Petrologiya) is a
journal of magmatic,
metamorphic, and
experimental

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The journal offers
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information on all

multidisciplinary

aspects of theoretical,

experimental, and

applied petrology. By

giving special

consideration to

studies on the

petrography of

different regions of

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the former Soviet
Union, Petrology
Geochemistry
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provides readers with
a unique opportunity
to refine their
understanding of the
geology of the vast
territory of the ...

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~~Springer~~

The Institute of
Geochemistry and
Petrology at ETH

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Zurich focuses on

questions at the

forefront of

geochemistry,

petrology, and

mineralogy, looking at

samples from our

planet and beyond,

providing a platform

for research and

teaching of these

fields.

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Petrology, and
Geochemistry of
Boron. Contents:
Mineralogy, Petrology
and Geochemistry of
Boron: An
Introduction The
Crystal Chemistry of
Boron Experimental
Studies on

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Borosilicates and

Selected Borates

Thermochemistry of

Borosilicate Melts and

Glasses - from Pyrex

to Pegmatites

Thermodynamics of

Boron Minerals:

Summary of

Structural, Volumetric

and Thermochemical

Data Continental

Borate Deposits of

Cenozoic Age Boron

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Micrology And
in Granitic Rocks and
Their Contact
Geochemistry
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Experimental Studies
of Boron in Granitic
Melts Borosilicates
(Exclusive of
Tourmaline) and
Boron in Rock-
forming Minerals in
Metamorphic
Environments
Metamorphic
Tourmaline and Its

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Applications
Tourmaline
Associations with
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Implications for
Crustal and Mantle
Processes Boron
Isotope
Geochemistry: An
Overview Similarities

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and Contrasts in
Lunar and Terrestrial
Boron Geochemistry
Electron Probe
Microanalysis of
Geologic Materials for
Boron Analyses of
Geological Materials
for Boron by
Secondary Ion Mass
Spectrometry Nuclear
Methods for Analysis
of Boron in Minerals
Parallel Electron

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Energy-loss
Spectroscopy of
Geochemistry
Of The East
Instrumental
Techniques for Boron
Isotope Analysis

The Cretaceous
Zululand Basin is one
of proposed areas for
geological CO₂
storage in South
Africa. The knowledge
of the basin is

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however very limited. This thesis aims to describe the sedimentary facies of the ZA core, drilled onshore Zululand Basin, in KwaZulu-Natal, South Africa, and to assess their depositional environment as well as possible lateral correlation. Further aim is to investigate

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the suitability of these rocks for a permanent sequestration of CO₂, based on their

geochemical and petrographic characteristics. The ZA drilling penetrated the Zululand Basin strata to a depth of 1779.9 m. The lowermost part of the ZA core from the recorded bottom at

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1779.9 to 1602 m

containing the
Makatini Formation is
however missing.

Most of the core
nevertheless is well
preserved. The
preserved ZA core
from 1602 to 1041 m
depth is characterised
by dark grey coloured,
bioturbated
calcareous siltstone
beds, rich in

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foraminifera, And

echinoderm and algae

fossils and a dark

grey coloured

laminated glauconitic

siltstone, overlain by a

succession of

siltstone strata with

some interbeds of

bioclastic packstones,

calcareous and

glauconitic siltstones

(Lower Mzinene

Formation). The

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Upper part of the

Mzinene Formation

starts from 1041 to

675 m depth,

displaying a bioclastic

packstone layer

followed by

bioturbated and wavy

bedded arkosic wacke

beds interbedded with

calcareous sandstone

layers rich in fossils

and parallel bedded

subarkose strata. The

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boundary between the Mzinene and St Lucia Formation is defined by the presence of a laminated siltstone bed at 675 m. The St Lucia Formation closing-up the Zululand Group, is comparable to the Mzinene Formation, except that the St Lucia Formation contains more fossil

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rich beds and

glauconite. Above 675

m depth, the core

displays siltstone

layers intercalated by

a bioturbated arkosic

wacke bed, followed

by 245 m thick

calcareous siltstone

beds. These 245 m

thick calcareous

siltstone strata are

overlain by cross-
bedded arkose and

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glaucconitic arkosic
wacke layers,
followed by
calcareous and
bioturbated siltstone
units and bioclastic
grainstone bed. Only
the sandstone strata
between 1035 to 678
m, meet the criteria of
a suitable reservoir for
a permanent
sequestration of CO₂.
The sandstone strata

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are bound on top by a

42 m thick siltstone

layers as potential

cap rocks, covered by

242 m thick

calcareous siltstone

and sandstone. These

depths however are

by far too shallow for

CO₂ sequestration.

Nevertheless,

petrographically,

these sandstones are

characterised as

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calcareous sandstone

and subarkose and

they contain mainly

quartz, calcite and

plagioclase minerals

with a respective

average of 47, 21 and

15% vol. Smectite,

glauconite, mica,

zeolite, hematite, and

lithic fragments are

present. The

geochemical results

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of these sandstones supporting their mineralogical contents shows the predominance of

SiO₂ (55 wt%), CaO (11 wt%), Al₂O₃ (10 wt%) and Fe₂O₃ (7 wt%) followed by

other oxides such as MgO, Na₂O, K₂O, H₂O, MnO, TiO₂, P₂O₅ and Cr₂O₃

summing up to c. 17

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wt%. The permeability and porosity of the middle sandstone rocks are respectively 8% and 10mD. The mineralogy of the possible cap rock layer is similar to the afore-mentioned sandstone units, dominated by quartz, calcite and plagioclase minerals. However, the clay

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mineral contents (mostly smectites) in the caprock bed are higher than in the possible sandstone reservoir. This higher clay content of the possible caprock is in accordance with the mineral spectral results showing the abundance of smectites and clay minerals in different

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depths. The rock
samples were treated
with CO₂ under
supercritical

conditions of 100 bars
and 100°C for
the duration of four
weeks. The treatment
results show a
dissolution on the
surface of quartz
grains. The calcite
cement was
dissolved, created

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secondary porosity and increasing the porosity and permeability of the rock. Therefore, the possible sandstone reservoir and the overlying siltstone rocks are probably unsuitable for injecting carbon dioxide because of the significant amount of calcite and

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Authigenic Minerals And

which may be dissolved during the scCO₂ - mineral

reaction, creating secondary porosity and can lead to the disintegration of entire layers.

This is a book about the petrology of kimberlites. It is not about upper mantle

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xenoliths, diamonds,

or prospecting for

kimberlites. The

object of the book is

to provide a

comprehensive

survey and critique of

the advances which

have been made in

kimberlite studies

over the last twenty-

five years. Kimberlites

are rare rock types;

however, their relative

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obscurity is overridden
by their economic and
petrological
importance to a

degree which is not
shared with the
commoner varieties of
igneous rocks.

Kimberlites are
consequently of
interest to a diverse
group of earth
scientists, ranging
from isotope

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g-ochemists
concerned with the
evolution of the
mantle, to
volcanologists
pondering the origins
of diatremes, to
exploration geologists
seeking new
occurrences of the
diamondiferous
varieties. A common
factor essential to all
of these activities is a

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thorough understanding of the characteristics of kimberlites. For the petrologist, kimberlites are exciting and challenging objects for study. Their petrographic diversity, complex mineralogy and geochemistry, and unusual style of intrusion provide

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endless opportunities for stimulating hypothesis and conjecture concerning their origin and evolution. Kimberlites are a part of a wide spectrum of continental intra-cratonic magmatism. Only by understanding all of the parts of this activity in detail may

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we make progress in
our understanding of
the whole.

The Beattie syenite is
composed of a series
of lenticular bodies of
syenitic rocks,
situated immediately
north of the Porcupine-
Destor fault zone in
the town of
Duparquet,
approximately 32 km

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Mineralogy And

Noranda in the Abitibi

Subprovince. The

principal body is 3.3

km long and 470 m in

width and is flanked

by a series of smaller

lenses to the south

and northeast. The

intrusion has been

zircon dated at

2682 ± 1 Ma and

2682.9 ± 1.1 Ma and

hosted the major part

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of the Au-mineralization of the now defunct Beattie mine, which was an important producer of gold in the area from 1933 to 1956 (9.66 Mt at 4.88 g/t Au). A total of 5 petrographic units are defined here, on the basis of field relationships, macroscopic textures, petrology and

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Mineralogy: 1- The

porphyritic Beattie

syenite unit is

composed of 2% to

10% of tabular sub- to

anhedral feldspar

phenocrysts about 2

mm to 10 mm in size,

set in a red

feldspathic and

aphanitic matrix. This

unit can be strongly

cataclastic with

abundant

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hydrothermal
minerals. 2- The
equigranular
magnetite-bearing
syenite unit includes
few feldspar
phenocrysts, about 2
mm to 10 mm in a fine-
grained matrix. It is
characterized by
unaltered titanite,
epidote, hornblende
porphyroblasts and is
the only unit with

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actinolite replacing clinopyroxene. 3- The porphyritic Central Duparquet syenite unit contains between 2% - 25% of coarse equant euhedral feldspar phenocrysts, about 5 mm to 16 mm in size, in a red or sometimes grey aphanitic matrix. 4- The megaporphyritic syenite unit is

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composed of very
coarse alkali feldspar
phenocrysts, typically
1 cm to 6 cm across,

in a red aphanitic

matrix. The

phenocrysts often

form a

glomeroporphyritic

texture. 5- The lath

syenite unit occurs as

numerous m?-width

thin dykes, which

cross-cut all other

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petrographic units.

These dykes display a characteristic trachytic texture, as defined by

the preferential

alignment of alkali

feldspar laths, which

are typically 1 cm to 3

cm in a grey or red

aphanitic matrix.

Petrology and

geochemistry

investigations

revealed that the

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syenite intruded into
the older 2720-2718
Ma volcanic Deguisier
Formation and the

Volume 50 of
Reviews in
Mineralogy and
Geochemistry treats
Beryllium and its
cosmogenic isotopes.
This volume includes

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an overview of Be
studies in the earth
sciences and a
systematic

classification of Be
minerals based on
their crystal structure.

It treats the analysis
of these minerals by
the secondary ion
mass spectroscopy as
well as experimental
studies of systems
involving Be.

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Moreover, this volume reviews the behavior of Be in the Solar System, with an emphasis on meteorites, the Moon and Mars, and the implications of this behavior for the evolution of the solar system. It gives an overview of the terrestrial geochemistry of Be

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and discusses the contamination of the environment by this anthropogenic toxin. It reports use of the longer lived Be-10 to assess erosion rates and other surficial processes and how this isotope can yield independent temporal records of geomagnetic field variations for

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records obtained by
Geochemistry
Of The East
measuring natural
remnant

magnetization, be a
chemical tracer for
processes in
convergent margins,
and can date events
in Cenozoic tectonics.
It reviews applications
of the shorter lived
isotope Be-7 in
environmental studies

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as well. Residual
phases include acidic
plutonic and volcanic
rocks, whose

geochemistry and
evolution are covered,
while granitic
pegmatites, which are
well-known for their
remarkable, if
localized, Be
enrichments and a
wide variety of Be
mineral assemblages,

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are reviewed. Not all
Be concentrations
have obvious
magmatic affinities;

for example, one
class of emerald
deposits results from
Be being introduced
by heated brines.

Pelitic rocks are an
important reservoir of
Be in the Earth's crust
and their

metamorphism plays

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a critical role in recycling of Be in subduction zones, eventually, anatexis processes complete the cycle, providing a source of Be for granitic rocks.

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Mineralogy And
Colorado gold
telluride deposits
share a number of

similarities: 1. Spatial association with silica undersaturated to oversaturated alkalic stocks of Tertiary age; 2. Evidence of volatile-rich fluids (containing CO₂ and F) in the pretelluride stage hydrothermal

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systems; 3. Similar temperature of formation and ore mineral paragenesis.

Detailed petrography of mineralization from deposits in the Jamestown (Buena, Black Rose mines), Cripple Creek (Cresson mine), and La Plata (Bessie G mine) districts indicates the following

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Geochemistry
Of The East

compositional paragenesis: 1. early base-metal sulfides and hematite; 2. tetrahedrite; 3. sylvanite, calaverite, krennerite and altaite; 4. coloradoite and petzite; 5. hessite; 6. late native gold. Fluid inclusion studies of the deposits indicate that telluride deposition took place

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Mineralogy And
in the temperature
range of
Geochemistry
140°-210°C., from
Of The East
relatively dilute fluids (

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