







Q

Home ▶ All Journals ▶ Engineering & Technology ▶ International Journal of Coal Preparation and Utilization ▶ List of Issues ▶ Volume 42, Issue 4 ▶ Characterization of rare earth elements ....

International Journal of Coal Preparation and Utilization > Volume 42, 2022 - Issue 4

357 4 0

Views CrossRef citations to date Altmetric

Research Article

# Characterization of rare earth elements by XRT sorting products of a South African coal seam

G. Akdogan 📵, S. Bradshaw, C. Dorfling, C. Bergmann, T. Ghosh 🔀 & Q. Campbell

Pages 1071-1087 | Received 25 Sep 2019, Accepted 23 Oct 2019, Published online: 11 Nov 2019

**66** Cite this article https://doi.org/10.1080/19392699.2019.1685506



Sample our
Economics, Finance,
Business & Industry Journals
>> Sign in here to start your access
to the latest two volumes for 14 days

Full Article

Figures & data

References

**66** Citations

Metrics

Repri

ABSTE

South Af

seam sit

subsequ

conte

quantitie

siderite,

microcli

HREEs L content

with coa

We Care About Your Privacy

We and our 887 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting I Accept enables tracking technologies to support the purposes shown under we and our partners process data to provide. Selecting Reject All or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the Show Purposes link on the bottom of the webpage .Your choices will have effect within our Website. For more details, refer to our Privacy Policy. Here

We and our partners process data to provide:

Use precise geolocation data. Actively scan device

Reject All

Show Purpose d
total REE unding

ite, and

psum,

ionally, the

with minor

ith ash

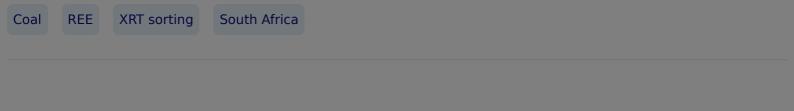
associated

ociated with

HREEs. La showed a weak association with Ce. Y is strongly correlated with HREE

elements especially with Dy, Tm, Lu and Ho while at the same time LREE are strongly associated with Ce, Pr, Nd, La, Eu but negatively with Sc and fixed carbon levels.

#### **KEYWORDS:**



### Acknowledgments

This work was partly supported by SAMMRI (South African Minerals to Metals Research Institute) with a seed fund under S1705.

# Additional information

## Funding

This work was partly supported by the SAMMRI (South African Minerals to Metals Research Institute) with a seed funding under S1705.



Source: Elsevier BV

Contents of major and trace elements in feed coals from Turkish coal-fired power plants

Source: Elsevier BV

ash
Source: Elsevier BV

A new type of Nb (Ta)–Zr(Hf)–REE–Ga polymetallic deposit in the late Permian coalbearing strata, eastern Yunnan, southwestern China: Possible economic significance and genetic implications

Leaching behaviour of selected trace elements in chemically weathered alkaline fly

Source: Elsevier BV
Coal in South Africa
Source: Elsevier BV

South Africa's coalfields - a 2014 perspective

Source: Elsevier BV

Geochemistry and mineralogy of the Late Permian coals from the Songzo Coalfield,

Chongging, southwestern China

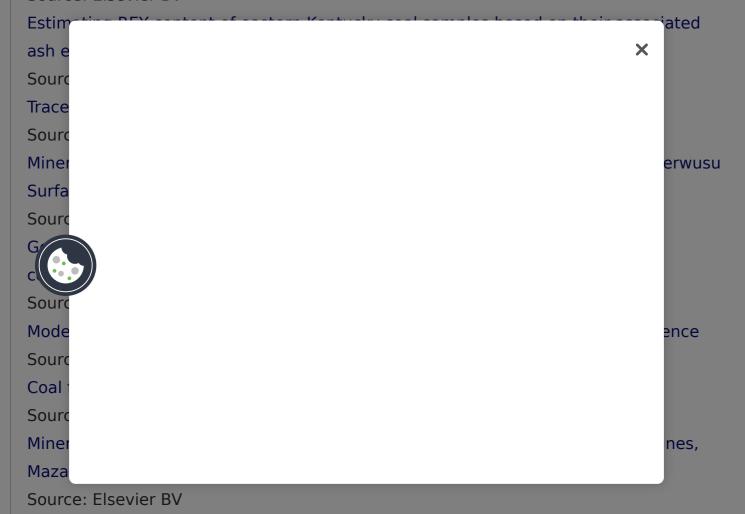
Source: Springer Science and Business Media LLC

Organic and inorganic associations of rare earth elements in central Appalachian coal

Source: Elsevier BV

The importance of minerals in coal as the hosts of chemical elements: A review

Source: Elsevier BV



Global rare earth resources and scenarios of future rare earth industry Source: Elsevier BV Lanthanide, yttrium, and zirconium anomalies in the Fire Clay coal bed, Eastern Kentucky Source: Elsevier BV Coal deposits as potential alternative sources for lanthanides and yttrium Source: Elsevier BV Geochemistry of rare earth elements in coal—A case study from Chongqing, southwestern China Source: SAGE Publications Evaluating rare earth element availability: a case with revolutionary demand from clean technologies Source: (:unav) Mineralogy and geochemistry of the No. 6 Coal (pennsylvanian) in the Junger Coalfield, Ordos Basin, China Source: Elsevier BV Rare earth element-bearing coals from the Russian Far East deposits Source: Elsevier BV Trace and Minor Elements in Coal Source: Springer US Rare earth elements in bituminous coals and underclays of the Sydney Basin, Nova Scotia: Element sites, distribution, mineralogy Sourc X d, Geoc China Sourc Quan rsive Xscani ray s Sourc ments Sour The a race elem Sourc Rare nd future Sourc The problems associated with using non-conventional rare-earth minerals

Source: Elsevier BV

Identification and significance of accessory minerals from a bituminous coal

Source: Elsevier BV

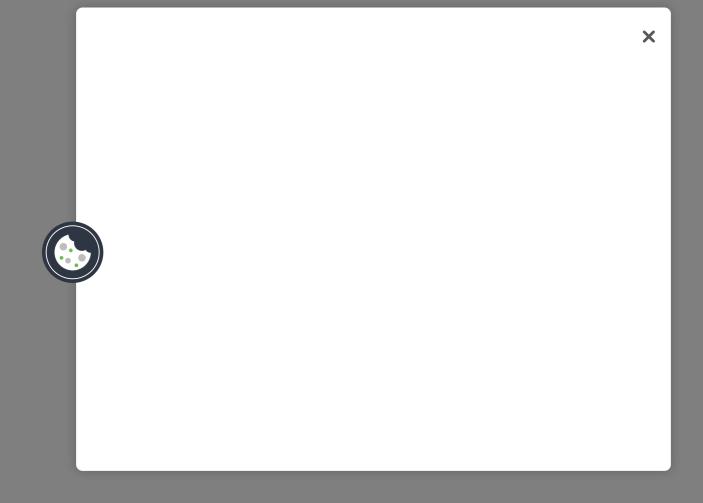
Rare earth elements in a sampled coal from the Pirin deposit, Bulgaria

Source: Elsevier BV

Linking provided by Schole plorer

### Related research 1





Information for Open access **Authors** Overview R&D professionals Open journals Editors **Open Select** Librarians **Dove Medical Press** Societies F1000Research Opportunities Help and information Reprints and e-prints Advertising solutions Newsroom Accelerated publication Corporate access solutions Books Keep up to date Register to receive personalised research and resources by email Sign me up X or & Francis Group Copyright