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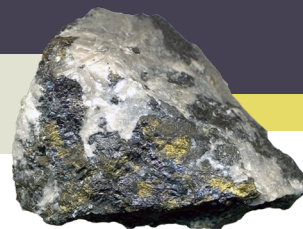
# RARE EARTHS

2<sup>ND</sup> INTERNATIONAL CONFERENCE 2024

18 JUNE 2024 - WORKSHOP  
19-20 JUNE 2024 - CONFERENCE

SWAKOPMUND HOTEL AND ENTERTAINMENT CENTRE,  
SWAKOPMUND, NAMIBIA

Global Impact and Sustainable Supply



## ABSTRACTS RECEIVED

Laboratory scale concentration of low-grade monazite beach sand - a pH dependency study

T. Moodley, R. Hassanalizadeh, and E. Muller, *Mintek, South Africa*

Development of smart(er) flowsheet for beneficiating rare earth minerals bearing heavy mineral sand ores

E. Raffailiac and R.M.G. MacHunter, *Mineral Technologies, South Africa*

Application of ion exchange technology for the upgrading and purification of the rare earths elements

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Recovery of rare earth elements from low concentration acidic streams using ion exchange resins

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Development of a modular LPX Plant™ for efficient extraction and environmental remediation of mercury-contaminated luminophosphor powders

M.D. Williams-Wynn, *E.Waste Africa, South Africa*

The assessment of rare earth elements in borehole cores from the Ermelo, Witbank and Waterberg Coalfields, South Africa

D.G. Modiba and N.J. Wagner, *University of Johannesburg, South Africa*

The magnet era of rare earths - how it started, where it is going, and what hurdles lay ahead *Project Blue, South Africa*

Mary Kathleen tailings derived rare earth concentrates via double salt precipitation and caustic conversion

Y. Guan, V. Loureiro, U. Sultana, and J. Vaughan, *The University of Queensland, Australia*

Review of the extraction of thorium and rare earth elements from complex ore

D. Kemp, *International Plasma Research Institute™, South Africa*

Stratigraphic distribution of rare earth elements within the Soutpansberg coalfield, Tshipise sub-basin, South Africa

R.W. Hlungwane, O.M. Moroeng, and N.J. Wagner, *University of Johannesburg, South Africa*

Challenges and opportunities for rare earth element mining in underground mines

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The flotation of coal discards from the Mpumalanga province to understand the concentration levels of critical raw materials

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Model development for the ultrasound-assisted alkali-acid leaching of rare earth elements from high ash coal from the Waterberg coalfield

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Quantification of Rare Earth Elements (REEs) from coal discards of the Ermelo Coalfield

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Extraction of rare earth elements from Phalaborwa phosphogypsum

R.A. Wildenboer<sup>1</sup> and R.F. Sandenbergh<sup>2</sup>, <sup>1</sup>Rainbow Rare Earths Pty. Ltd and <sup>2</sup>University of Pretoria, South Africa

Strategic considerations in the construction of a rare earth facility in Angola: A comparative analysis of modular construction and traditional stick build approaches

R.K. Dantu and T. Marcus, *ProProcess Engineering, South Africa*

The Triassic coal deposits in Lesotho as an alternative source of rare earths

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Rare earth extraction with ionquest 801

C. Carrozza, F. Dutoy, and M. Bruna Stella, *Italmatch Chemicals Spa, Italy*

Geochemical analysis of REE in Kazakh coals using single-step acid leaching method

M. Junussov, A. Abildakhanov, and D. Zhanaidar, *Nazarbayev University, Khazakstan*

Application of a characterization toolbox for understanding REE distribution in an ion adsorption clay type ore

C.E. Naude, J. Petersen, and M. Becker, *University of Cape Town, South Africa*

Enrichment of rare earth elements in no. 6 coal seam from the Limpopo coalfield, South Africa

S. Biswas, N.J. Wagner, and O.M. Moroeng, *University of Johannesburg, South Africa*

Investigating the Impact of Rare Earth Elements on the Precision and Accuracy of Dry and Wet Sieving in Particle Size Distribution Analysis

K. Mudzanani, D. Maiga, and T. Phadi, *Mintek, South Africa*