

Characterization and changes in the thermal behavior of the phosphorite sample from Toolse deposit (Estonia) along the drill-core

Kaljuvee, Tiit; Tõnsuaadu, Kaia; Kallaste, Toivo; Graul, Sophie; Hints, Rutt; Kivimäe, Eliise-Koidula; Petkova, Vilma; Triikkel, Andres Journal of thermal analysis and calorimetry 2024 / p. 12651 - 12664 <https://doi.org/10.1007/s10973-024-13655-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The enrichment process of vanadium in lower ordovician vanadiferous black shales from Estonia : investigating critical metal resources in Europe

Ndiaye, Mawo; Graul, Sophie; Kallaste, Toivo; Hints, Rutt Goldschmidt 2023 Abstract 2023 / 1 p.
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LA-ICP-MS imaging technique application on Estonian sedimentary phosphorites : revealing REE enrichment stages and advanced ore characterisation

Graul, Sophie; Monchal, Vincent; Rateau, Rémi; Joosu, Lauri; Moilanen, Marko; Ndiaye, Mawo; Hints, Rutt EGU General Assembly 2024 2024 / EGU24-7319 <https://doi.org/10.5194/egusphere-egu24-7319>

REE + Y distribution in Tremadocian shelly phosphorites (Toolse, Estonia) : multi-stages enrichment in shallow marine sediments during early diagenesis

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REE potential in sedimentary apatite: Delve deeper with microanalytics

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Unconventional resources of REE : challenges for exploration and processing, with the example of Estonian phosphorite

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