

Early diagenetic transformation stages revealed by micro-analytical studies of shelly phosphorites, Rakvere region
Graul, Sophie Jane Marie-Pascale Huguet; **Kallaste, Toivo**; Moilanen, Marko; **Ndiaye, Mawo**; **Hints, Rutt** Estonian journal of earth sciences 2023 / p. 34–37 : ill <https://doi.org/10.3176/earth.2023.12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Graul, Sophie; **Kallaste, Toivo**; **Pajusaar, Siim**; **Urston, Kriksjan**; **Gregor, Andre**; Moilanen, Marko; **Ndiaye, Mawo**; **Hints, Rutt** Journal of Geochemical Exploration 2023 / art. 107311 <https://doi.org/10.1016/j.gexplo.2023.107311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

REE potential in sedimentary apatite: Delve deeper with microanalytics

Graul, Sophie; Monchal, Vincent; Rateau, Rémi; Joosu, Lauri; Moilanen, Marko; **Ndiaye, Mawo**; **Hints, Rutt** 4th European Mineralogical Conference. Dublin, Ireland : programme and abstracts 2024 / p. 275 : ill <https://www.minersoc.org/wp-content/uploads/2024/09/EMC-Programme-and-Abstracts-FINAL.pdf>

REE+Y distribution in tremadocian shelly phosphorites (Toolse, Estonia): A geochemical and mineralogical investigation for European critical raw material

Hints, Rutt; **Graul, Sophie Jane Marie-Pascale Huguet**; **Kallaste, Toivo**; **Ndiaye, Mawo**; Moilanen, Marko; Monchal, Vincent Goldschmidt 2023 2023 / 1 p. <https://doi.org/10.7185/gold2023.13625>