

**DEXPLORE Horizon EU project: Investigation of CRM potential of Estonian basement**  
**Graul, Sophie Jane Marie-Pascale Huguette; Nirgi, Siim; Soesoo, Alvar; Solano-Acosta, Juan-David; Hints, Rutt; Hands, Tony; Hernandez Moreno, Catalina** Lithosphere 2024 2024 / p. 29-32 <https://doi.org/10.13140/RG.2.2.18365.47840>  
<https://www.seismo.helsinki.fi/pdf/Lito2024.pdf>

**Early diagenetic transformation stages revealed by micro-analytical studies of shelly phosphorites, Rakvere region**  
**Graul, Sophie Jane Marie-Pascale Huguette; 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](#)

**Exploring critical element enrichment pathways in black shales : a case study of Türisalu formation in Estonia**  
**Ndiaye, Mawo; Kallaste, Toivo; Graul, Sophie Jane Marie-Pascale Huguette; Hints, Rutt** 4th European Mineralogical Conference. Dublin, Ireland : programme and abstracts 2024 <https://www.minersoc.org/wp-content/uploads/2024/09/EMC-Programme-and-Abstracts-FINAL.pdf>

**Fine clay shuttle as a key mechanism for V hyper-enrichment in shallow water Tremadocian black shale from Baltica**  
**Ndiaye, Mawo; Pajusaar, Siim; Liiv, Merlin; Graul, Sophie Jane Marie-Pascale Huguette; Kallaste, Toivo; Hints, Rutt** Chemical geology 2023 / art. 121583 <https://doi.org/10.1016/j.chemgeo.2023.121583> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Is the Estonian Alutaguse Section of Eastern Fennoscandia a continuation of the Southern Svecofennian Finnish Terranes, or is it akin to the Swedish Bergslagen region?**  
**Solano Acosta, Juan David; Soesoo, Alvar; Hints, Rutt; Graul, Sophie Jane Marie-Pascale Huguette** Lithosphere 2024 2024 / p. 116-119 <https://www.seismo.helsinki.fi/pdf/Lito2024.pdf> <https://doi.org/10.48726/wmj1-93777>

**Is the Estonian Alutaguse Section of Eastern Fennoscandia a continuation of the Southern Svecofennian Finnish Terranes, or is it akin to the Swedish Bergslagen region?**  
**Solano Acosta, Juan David; Soesoo, Alvar; Hints, Rutt; Graul, Sophie Jane Marie-Pascale Huguette** EGU General Assembly 2025 2025 / art. EGU25-7212  
[https://www.researchgate.net/publication/391064063\\_Is\\_the\\_Estonian\\_Alutaguse\\_Section\\_of\\_Eastern\\_Fennoscandia\\_a\\_continuation\\_of\\_the\\_Southern\\_Svecofennian\\_Finnish\\_Terranes\\_or\\_is\\_it\\_akin\\_to\\_the\\_Swedish\\_Bergslagen\\_region](https://www.researchgate.net/publication/391064063_Is_the_Estonian_Alutaguse_Section_of_Eastern_Fennoscandia_a_continuation_of_the_Southern_Svecofennian_Finnish_Terranes_or_is_it_akin_to_the_Swedish_Bergslagen_region) <https://doi.org/10.5194/egusphere-egu25-7212>

**Mineral Exploration of the Senegalese Grande Cote heavy minerals placer: QEMSCAN characterisation of Fe-Ti oxides for ore modelling**  
**Kanzari, Aisha; Graul, Sophie Jane Marie-Pascale Huguette; Delaporte, Arthur; Hints, Rutt; Blancher, Simon** Mineral Exploration of the Senegalese Grande Cote heavy minerals placer: QEMSCAN characterisation of Fe-Ti oxides for ore modelling 2024 / 2 p. <https://doi.org/10.5194/egusphere-egu24-19227>

**Nitrogen and organic carbon isotope record in Tremadocian highly metalliferous black shales from Baltica**  
**Ndiaye, Mawo; Liiv, Merlin; Kallaste, Toivo; Graul, Sophie Jane Marie-Pascale Huguette; Hints, Rutt** Estonian journal of earth sciences 2023 / p. 78-81 : ill <https://doi.org/10.3176/earth.2023.25> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**REE + Y distribution in tremadocian shelly phosphorites (Toolse, Estonia) : multi-stages enrichment in shallow marine environment during early diagenesis**  
**Graul, Sophie Jane Marie-Pascale Huguette; Hints, Rutt; Pajusaar, Siim; Ndiaye, Mawo** Geological Society of America Abstracts with Programs 2022 / 1 p <https://doi.org/10.1130/abs/2022AM-380090>

**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 Huguette; Kallaste, Toivo; Ndiaye, Mawo; Moilanen, Marko; Monchal, Vincent Goldschmidt** 2023 2023 / 1 p. <https://doi.org/10.7185/gold2023.13625>