



Supplement of

Exploring the unusual occurrence, chemistry, and structural topology of åsgruvanite-(Ce), $\text{Ce}_{16}\text{Ca}_5\text{Al}(\text{SiO}_4)_6(\text{AsO}_3)_8(\text{CO}_3)_2\text{Cl}_3(\text{ClF}_3)(\text{OH})_2$, a new rare earth element (REE) mineral from Västmanland, Sweden

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