

## **Studies related to rare earth elements in center of excellence SOURCES**

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The Centre of Excellence in Circular Economy of Strategic Mineral and Carbon-based Resources (SOURCES) is dedicated to promoting material circulation and reuse. Strategic mineral resources are essential for the development and implementation of various sustainable energy and technological solutions; therefore, disruptions in their supply chains can significantly impact the market and use of these technologies. Our approach to monitoring trends in the supply chain of resources for electric vehicles will be presented. Additionally, rare earth elements (REEs) are among critical resources, yet their extraction and processing come with considerable environmental costs. The development of environmentally friendly separation methods is key to enabling the efficient and sustainable recycling of REEs. In my talk, I will present our preliminary research results toward the development of new organic materials for the supramolecular recognition of rare earth elements for their selective separation, as well as our initial experiments on recycling magnet materials using the decrepitation approach.