

Special Issue

Sustainability of the Rare Earth Resources, Technology Practices, and Industry

Message from the Guest Editors

Rare earth resources constitute both lighter and heavier types of metals, and they have attracted considerable attention in the past century due to their large number of applications. Rare earth deposits in natural sources across the world are limited, with the majority of the content of total rare earths (REs) located in a small number of countries. Therefore, considering the scenario of the existence of and growing global demand for rare earth metals for everyday needs, the recycling of secondary sources, including end-of-life vehicle batteries, waste permanent magnets, spent catalysts, and e-waste, among others, is emerging as an area of interest.

Considering the lower abundance and scarcity of REs, the fabrication of permanent magnets with a lower amount of REs is pivotal for the industry and an urgent challenge that researchers must tackle. With the help of the aforementioned advantages of the wet chemical methods, however, we will have the chance to reduce the RE amounts in the magnet in permanent magnetic powders and use other, lower-cost elements.

Guest Editors

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