Special Issue

Extraction, Separation, and Recovery of Rare Earth Elements

Message from the Guest Editors

Rare earth elements (REEs) are critical materials in modern technologies, ranging from electronics and renewable energy systems to advanced medical applications. Efficient extraction, separation, and recovery of REEs from primary ores, secondary resources, and industrial waste streams have become increasingly important due to their limited supply and growing demand. This Special Issue focuses on innovative strategies and technologies for the entire value chain of REE processing, including solvent extraction, ion exchange, precipitation, leaching, and emerging green and sustainable approaches. Contributions that advance the understanding of separation mechanisms, improve selectivity and efficiency, reduce environmental impact, or integrate computational and experimental methods are particularly welcome. By bringing together cutting-edge research on extraction, separation, and recovery, this issue aims to provide a comprehensive platform for scientists and engineers to address the technical challenges and explore sustainable solutions in the field of rare earth elements.

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

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