



Economic Potential and Characteristics of REE Deposits and Other Critical Raw Materials

Guest Editors:

Dr. Argyrios Papadopoulos

School of Chemistry-Laboratory of Chemical & Environmental Technology Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

argpapad@geo.auth.gr

Prof. Dr. Yasushi Watanabe

Graduate School of International Resource Sciences, Akita University, 1-1, Tegata-Gakuenmachi, Akita 010-8502, Japan

y-watanabe@gipc.akita-u.ac.jp

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Message from the Guest Editors

The European Union's (EU) list of critical raw materials is expanding. As of 2020, it contains 30 materials, including Rare Earth Elements (REEs), platinum group metals, while bauxite, lithium, titanium, and strontium have recently been added. REEs are important due to their usage in high-tech applications. The supply of critical raw materials is limited and is derived mostly from non-EU countries. The search for new REE deposits is in progress, as the most important global REE producer is China. As a result of the current metallurgical technology, some deposits whose REE budget is silicate minerals are not economical. The management of the elevated natural radioactivity associated with the REE-enriched minerals is also important.

The purpose of this Special Issue is to provide not only new techniques about beneficiation of critical raw materials like REE leaching, but also analyses of the global market of critical raw materials, along with case studies of new critical raw material deposits that could be economical in the future due to the progress of metallurgical techniques and variations in the prices and global market.





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Editor-in-Chief

Prof. Dr. Paul Sylvester

Endowed Pevehouse Chair,
Department of Geosciences,
Texas Tech University, Lubbock,
TX 79409-1053, USA

Message from the Editor-in-Chief

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Contact Us

Minerals
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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