





an Open Access Journal by MDPI

Utilization of Industrial By-Products—Recovery of Rare Earth Flements

Guest Editor:

Prof. Dr. Maria Ochsenkuhn-Petropoulou

School of Chemical Engineering, National Technical University Athens, Department of Chemical Sciences, Laboratory of Inorganic and Analytical Chemistry, Iroon Polytechneiou 9, Zographou Campus, 15780 Athens, Greece

Deadline for manuscript submissions:

closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

An industrial by-product is a production residue from an industrial process that is not a waste, with a minor net realizable value (NRV) when compared with the main products. As economically exploitable minerals containing REEs are very scarce, the available stockpiles have decreased and the recovery of REEs from their deposits is difficult due to the coexistence of radioactive elements; therefore, it is necessary to investigate the potential to recover REEs from different industrial byproducts. These industrial streams contain relatively low concentrations of REEs in comparison to primary ores, but large volumes are available, and therefore they could become economically attractive secondary sources of REEs. This Special Issue aims to publish papers dealing with the recovery of REEs from different industrial-by products.

This SI is cooperating with the conference ERES2020. Selected papers (extended abstracts) from the conference, will be invited to contribute to the special issue with 20% discount. All submitted papers to this special issue will undergo a separate review process according to the journal's practice.











an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure - disciplines in metallurgical field the ranging from processing. mechanical behavior. phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Author Benefits

Open Access: free for readers, with <u>article processing charges (APC)</u> paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science),

Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Metallurgy & Metallurgical Engineering) / CiteScore - Q1 (Metals

and Alloys)

Contact Us

Metals Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/metals metals@mdpi.com X@Metals_MDPI