Special Issue

Development of New Processes for the Recovery of Metals from Waste Streams

Message from the Guest Editors

In 2011 and in 2018, both the European Commission and the USA, respectively, created a list of Critical Raw Materials that are not only essential for key technologies and industries but are also at high risk of supply disruption. Over a decade later, increased concerns about limited natural reserves, as well as geopolitical and ethical risks of supply chain disruptions, demonstrate the need for recycling these materials. This is particularly well illustrated in electronics, but despite over 50 million tonnes of electronic waste being generated globally each year, less than 20% is formally recycled, and a majority shipped overseas for disposal, where an estimated GBP 55 billion of rare metals are lost annually. In conventional recycling methods, which rely on high temperature and produce acid-waste, metal recovery can have poor yield, while exposing workers and ecosystems to toxic by-products. So recycling is essential, but novel more sustainable methods need to be developed.

Guest Editors

Prof. Dr. Sebastien Farnaud Centre for Health and Life Sciences (CHLS), Coventry University, Coventry CV1 5FB, UK

Dr. Fatemeh Pourhossein Research Centre for Health & Life Sciences, Coventry University, Coventry CV1 5FB, UK

Deadline for manuscript submissions

30 November 2025



Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



mdpi.com/si/235382

Processes Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 processes@mdpi.com

mdpi.com/journal/

processes





Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



processes



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: CiteScore - Q2 (Chemical Engineering (miscellaneous))