Special Issue

Recycling and Reusing of Various Spent Batteries

Message from the Guest Editors

Recycling and reusing of spent batteries is an alternative for obtaining critical or dangerous raw materials, preserving mineral resources, ensuring sustainability, and promoting the circular economy. Topics include, but are not limited to, the following:

- Recycling and reuse of the lithium ion batteries;
- Recycling of nickel-metal hydride batteries;
- Recycling of zinc-manganese oxide batteries;
- Nickel-cadmium battery recycling;
- Hydrometallurgical recycling of spent batteries;
- Pyrometallurgical recycling of spent batteries;
- Biometallurgical processes;
- Direct recycling of spent batteries;
- Green recycling of spent batteries;
- Raw material obtained from the recycling of spent batteries.

Guest Editors

Dr. Marcos B.J.G. Freitas

Laboratory of Electrochemistry and Electroanalytics, Department of Chemistry, Federal University of Espírito Santo, Av. Fernando Ferrari, 514, Goiabeiras, Vitória 29075-910, ES, Brazil

Dr. Éric Marsalha Garcia

Department of Exact and Biological Sciences, Federal University of São João del-Rei, Sétimo Moreira Martins Street, 188, Itapoã District, Sete Lagoas 35702-031, MG, Brazil

Deadline for manuscript submissions

5 March 2026



Processes

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



mdpi.com/si/240689

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



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))

