Special Issue

Sustainable Materials and Technologies for Battery Manufacturing

Message from the Guest Editors

This Special Issue delves into the critical intersection of sustainability and battery manufacturing, addressing pressing environmental concerns and technological advancements in the field. Articles submitted here will explore various aspects of these topics, including the sourcing of eco-friendly materials, efficient manufacturing processes, and waste reduction strategies in battery production. Contributions will highlight innovative approaches such as recycling and the reuse of materials, novel electrode materials derived from renewable sources, solid-state batteries without a liquid electrolyte, and the development of greener manufacturing techniques. By fostering discussions on sustainable practices, this Special Issue aims to accelerate the transition towards environmentally conscious battery manufacturing, which is crucial for the advancement of renewable energy technologies and the mitigation of environmental impacts. We look forward to receiving your contributions.

Guest Editors

Dr. Biyu Jin

Prof. Dr. Qinghua Zhang

Dr. Jinliang Zhu

Deadline for manuscript submissions

1 April 2026



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/205601

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

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

