Special Issue

Nanostructured Materials for Energy Storage Applications

Message from the Guest Editors

This Special Issue aims to explore cutting-edge developments in nanostructured materials for energy storage applications, focusing primarily on sustainable synthesis, lifecycle assessments, and scalable fabrication methods. We welcome original research articles, comprehensive reviews, and perspectives that address (but are not limited to) the following topics: Nanostructured materials (graphene, MXenes, metal oxides, and nanocomposites) for electrochemical energy storage. Next-generation battery technologies (lithium-ion, sodium-ion, solid-state, lithium-sulfur, and beyond). Supercapacitors and hybrid energy storage systems leveraging nanotechnology. Sustainable fabrication processes and eco-friendly material development. Mechanistic insights into charge storage and ion transport in nanostructures. Environmental impact and recyclability of nanomaterials for energy applications. This Special Issue aims to bridge fundamental materials science with applied energy technologies by fostering interdisciplinary collaboration and contributing to developing greener and more efficient energy storage solutions.

Guest Editors

Dr. Liliana Licea Jiménez

Centro de Investigación en Materiales Avanzados S.C. (CIMAV), Subsede Monterrey, Parque PIIT, Alianza Norte 202, Apodaca CP 66628, NL, Mexico

Dr. Ulises Antonio Méndez Romero

Department of Chemistry and Chemical Engineering, Chalmers University of Technology, SE-412 96 Gothenburg, Sweden

Deadline for manuscript submissions

31 March 2026

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/233674

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

mdpi.com/journal/sustainability

MDPI

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. *Sustainability* publishes original research articles, review 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. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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)