

Special Issue

Technologies for Energy Storage, Conversion, and Saving

Message from the Guest Editors

The Issue aims to show recent research and breakthroughs in electric energy storage systems, energy conversion systems, and energy-saving method that can drive electric vehicle performance, longevity, and sustainability. With an increasing demand for energy storage solutions, battery technologies remain critical. Besides, innovations in thermal management, fast-charging infrastructure, and energy conversion processes play vital roles in optimizing EV efficiency and enhancing user experience. We seeks to address existing challenges envisaged with usage of sustainable powertrain and energy storage/conversion technologies to achieve zero carbon emission goals.

The issue welcomes articles of the following topics: novel battery technologies and advanced modelling techniques; emerging fuel cell technologies and modelling approaches; next-generation battery management systems; innovations in battery thermal management systems; technologies for second-life battery applications; novel electric drive units and sustainable powertrain technologies; integration of energy storage systems in electric vehicles and smart grids; fast-charging technologies for electric vehicles.

Guest Editors

Dr. Farhad Salek
Dr. Aydin Azizi
Dr. Meisam Babaie

Deadline for manuscript submissions

closed (31 August 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/224366

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



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)