



## Hybrid Energy System in Electric Vehicles

Guest Editors:

**Prof. Dr. Jiageng Ruan**

**Prof. Dr. Lei Zhang**

**Dr. Weihan Li**

**Dr. Zhongwei Deng**

Deadline for manuscript  
submissions:

**closed (31 March 2024)**

### Message from the Guest Editors

Dear Colleagues,

This SI is a platform on the latest developments on HESS for electric vehicles can be shared. Researchers in this field are encouraged to contribute. The following topics are welcomed, but submissions are not limited to the list of topics below:

- Design, system engineering, and field applications of HESS for EV;
- Modeling, simulation, testing, and verification for renewable energy sources in HESS;
- Coordination sizing and energy management of HESS; Power conversion electronics for renewable energy sources;
- Power electronic architectures for HESS;
- Aging mechanisms of power converters and energy storage devices;
- Online estimation of state-of-charge, state-of-health, and state-of-power;
- Aging modeling and lifetime prediction; Power electronic architectures for HESS;
- Solid-state battery technology, hydrogen fuel cell technology, and supercapacitor technology;
- Machine learning, big data, and cloud computing in HESS applications;
- Real-time energy management and predictive optimization methodologies;
- Monitoring and predictive maintenance of HESS;
- Life cycle analysis, including re-use of HESS in second-life applications.





an Open Access Journal by MDPI

## 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

## 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.

## 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](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

## Contact Us

*Sustainability* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](#)