

## Special Issue

# Advances in Technology Development on Electric Vehicles for Sustainable Transportation

### Message from the Guest Editors

This Special Issue aims to focus on advances in EV technologies: 1) the high torque density of electric machines, high efficiency of electric propulsion systems and high reliability of electric drivetrains; 2) the high power density of chargers and power converters; 3) the high energy density of energy storages and high convenience of energy refueling and regenerating technologies; and 4) the high flexibility and functionality of V2V, V2H and V2G interactions, as well as wireless EV energy networks. Topics of interest include, but are not limited to, the following: Technological advances in electric, hybrid electric and fuel cell vehicles; High-efficiency electric propulsion systems and high-reliability electric drivetrains; High-torque-density electric machines and drives; High-power-density wired chargers, wireless chargers and power converters; Advanced control strategies for electric propulsion and power electronics; State-of-the-art batteries and battery management technologies; Vehicle-to-vehicle, vehicle-to-home and vehicle-to-grid interactions; Wireless electric vehicle energy networks;

---

### Guest Editors

Dr. Wei Liu  
Prof. Dr. Kwok Tong Chau  
Prof. Dr. C. C. Chan

---

### Deadline for manuscript submissions

closed (30 November 2023)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/155288](https://mdpi.com/si/155288)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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)