

## Special Issue

# New Energy Vehicles (NEVs): Batteries, Fuel Cells and Energy Storage System

### Message from the Guest Editors

With the international trend of carbon neutralization and peaking, NEVs are one of the most important means of achieving that goal for the transportation sector and power grid industry. NEVs and the power grid industry will deeply integrate for coordinated development. NEVs will play an important role in the progress of the energy revolution. NEVs depends mostly on breakthrough energy storage systems, covering advanced material development, the design and manufacture of battery cells, packing technologies and smart management systems. Moreover, charging, infrastructure, and the development of energy feeding systems are important cornerstones for the large-scale penetration of NEVs. The repurposing and recycling of retired power batteries are also key for ensuring the sustainable development of NEVs. This Special Issue focuses on all the innovative technologies in the whole technological chain of power batteries, fuel cells and other energy systems with respect to sustainability, covering all the stages of the research process, including mechanisms, materials, modeling, simulation, testing and standards.

---

### Guest Editors

Prof. Dr. Minggao Ouyang

Dr. Liao Chen

Prof. Dr. Xiaosong Hu

Prof. Dr. Partha P. Mukherjee

Dr. Martin Z. Bazant

Prof. Dr. Zhonghao Rao

et al.

---

### Deadline for manuscript submissions

closed (30 June 2022)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/98293](https://mdpi.com/si/98293)

*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. *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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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