

## Special Issue

# Power Electronics on Recent Sustainable Energy Conversion Systems

### Message from the Guest Editors

Power electronic systems are employed worldwide, with multiple applications such as centralized generation, energy storage, distributed generation, electric vehicles, renewable power generation systems, illumination systems, hydrokinetic converters, traction converters, and power supply systems, among others. Power electronic systems aim to perform energy conversion with maximum efficiency, a high power density, low cost, high-quality power, and high reliability in order to maximize the utilization of energy resources. Thus, the reliability of power electronics systems can be enhanced by incorporating advanced control schemes, using novel technologies related to power semiconductors and passive elements, and new PWM strategies. The present Special Issue aims to promote the generation of knowledge associated with the advanced application of power electronic energy conversion systems. Authors are encouraged to submit original contributions related to recent advances in energy conversion systems.

### Guest Editors

Prof. Dr. Gerardo Vazquez-Guzman

Electronic Engineering Department, Tecnológico Nacional de México/ITS de Irapuato, Irapuato 36821, Guanajuato, Mexico

Prof. Dr. Panfilo R. Martinez-Rodriguez

Facultad Ciencias, Universidad Autonoma de San Luis Potosi, Av. Chapultepec 1570, San Luis Potosi 78290, San Luis Potosi, Mexico

### Deadline for manuscript submissions

31 August 2025



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/214488](https://mdpi.com/si/214488)

*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)