



## Advances in Renewable Energy Conversion Systems

Guest Editors:

**Dr. Marif Daula Siddique**

Department of Electrical and  
Computer Engineering, National  
University of Singapore,  
Singapore 119077, Singapore

**Prof. Dr. Saad Mekhilef**

School of Software and Electrical  
Engineering, Swinburne  
University of Technology,  
Hawthorn, VIC 3122, Australia

**Dr. Ikhtlaq Hussain**

Department of Electrical  
Engineering, University of  
Kashmir, Srinagar, India

Deadline for manuscript  
submissions:

**closed (31 August 2023)**

### Message from the Guest Editors

Dear Colleagues,

In order to mitigate the greenhouse gas emissions and global warming concerns, modernizing electrical energy generation systems for sustainable energy has gained popularity. The need for ecologically friendly power generation has led to innovative concepts in generation, transmission, distribution, energy storage, building architecture, system fabrication and utilization.

Research areas may include (but are not limited to) the following:

- Power converters and their control for renewable energy applications;
- Energy conversion and storage;
- Renewable-energy-based low-power energy technologies;
- Application of renewable energy systems for zero-energy/net-positive buildings;
- Health monitoring/condition monitoring of renewable energy systems;
- Reliability of smart grids;
- Design, control, fabrication and optimization of battery management systems (BMSs);
- Advancement in the materials science for renewable energy systems;
- High-performance HVAC systems for buildings.

We look forward to receiving your contributions.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)