

## Special Issue

# Design and Control of Smart Renewable Energy Systems

### Message from the Guest Editors

This Special Issue is dedicated to research related to new kinds of design and control methods for general energy systems with renewable energy resources, AI-based control strategies, efficient optimization and control methods for system operation, renewable energy system infrastructure and data-driven smart decision-making methods.

General topics covered in this Special Issue include, but are not limited to, the following:

- Next-generation renewable energy system design;
- Control and energy management strategies;
- Uncertainty modeling of renewable energy systems;
- AI-based decision-making methods;
- Data analytics in renewable energy generation and consumption;
- Electrified transportation and renewable energy systems;
- Grid-interactive buildings with distributed renewable resources;
- Efficient optimization and control method for renewable energy systems;
- New equipment and devices for renewable energy resources;
- Policy and market mechanisms for renewable energy systems.

### Guest Editors

Dr. Tao Chen

School of Electrical Engineering, Southeast University, Nanjing 210096, China

Dr. Qiuhua Huang

Colorado School of Mines, Golden, CO 80401, USA

Dr. Yingjun Wu

College of Energy and Electrical Engineering, Hohai University, Nanjing 211100, China

### Deadline for manuscript submissions

closed (15 September 2024)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/158221](https://mdpi.com/si/158221)

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

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## About the Journal

### 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 guestedited by leading experts in selected topics of interest.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

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

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q1 (Electrical and Electronic Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 16.8 days after  
submission; acceptance to publication is undertaken in 2.4  
days (median values for papers published in this journal in  
the first half of 2025).