

## Special Issue

# Photovoltaic Systems for Sustainable Energy

### Message from the Guest Editor

This Special Issue solicits papers that relate to the successful planning, investment, application, and operation of PV systems. This Special Issue focuses on the following topics (including but not limited to the following):

- PV materials, including new and further developed solutions, modeling, and simulations;
- PV cells and modules;
- Power electronics devices (inverters, controllers, etc.);
- PV solutions for off-grid and grid-connected operation;
- Novel optimization and control techniques (fuzzy logic, neural networks, partial swarm optimization, ant colonies, and the like);
- Studies for solar potential estimation and PV sizing;
- Modeling, simulation, and stability analysis of PV systems;
- Schemes for increased PV penetration (e.g., coordination with EVs, or storage);
- New controller designs, e.g., virtual synchronous generator, grid-forming inverters, smart inverters;
- Performance analysis of PV panels;
- Economic analysis for PV systems;
- Renewable energy policy and incentive studies for increased PV penetration.

Welcome to contribute!

---

### Guest Editor

Dr. Taha Selim Ustun

Power System Automation and Cybersecurity Lab, Fukushima Renewable Energy Institute, Advanced Industrial Science and Technology (AIST), Koriyama 963-0298, Japan

---

### Deadline for manuscript submissions

closed (15 September 2020)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/26147](https://mdpi.com/si/26147)

*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 guest-edited 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), CAPus /  
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).