



Photovoltaic Systems for Sustainable Energy

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)

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!



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 guestedited 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 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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