Special Issue

Energy Optimization of Photovoltaic Power Plants

Message from the Guest Editors

Both climate change and the increase in energy demand generate new challenges in today's society, the transition to renewable energy sources and to photovoltaic power plants, respectively, is an alternative that meets these challenges. Thus, the importance and necessity of real-time monitoring related to PV system operation, as well as the power quality assessment, should be outlined in order to optimize energy production and performance. This Special Issue aims to gather contributions and research advances regarding the operation of PV systems and energy generation improvement measures. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- On-site testing of PV power plants;
- Laboratory testing of PV power plants;
- Anomaly detection in PV power plant operation;
- Smart monitoring software for PV power plant detection;
- Smart devices for PV power plant operation monitoring;
- New technologies for PV power plant operation improvement.

We look forward to receiving your contributions.

Guest Editors

Dr. Lucia Andreea El-Leathey

Department of Renewable Energy Sources and Energy Efficiency, National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest, Romania

Dr. Alexandru-Ionel Constantin

Department of Renewable Energy Sources and Energy Efficiency, National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest, Romania

Deadline for manuscript submissions

15 August 2025

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/222401

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

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), 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).