

Special Issue

New Trends in Grid-Connected Photovoltaic Systems

Message from the Guest Editors

The aim of this Special Issue is to publish original works related to recent advances in GCPV systems and thus promote the massive use of renewable PV energy.

Topics of interest for this Special Issue include but are not limited to the following areas:

- Feasibility studies for GCPV systems;
- Advances in modeling and control of GCPV systems;
- Advances in optimization and sizing of GCPV systems;
- New trends in power electronics topologies for GCPV systems;
- Advances in maximum power point tracking (MPPT and GMPPT) algorithms;
- Advances in power quality improvement in GCPV systems;
- Advances in reliability and resilience of GCPV systems;
- New trends in electrical vehicles (EV) recharging in on- and off-grid environments;
- New trends in PV energy-based optimal battery recharging systems.

We welcome your contributions.

Guest Editors

Dr. Guillermo Velasco-Quesada

Department of Electronic Engineering, Eastern Barcelona School of Engineering (EEBE), Technical University of Catalonia (UPC), BarcelonaTECH, E-08019 Barcelona, Spain

Dr. Herminio Martinea-García

Department of Electronic Engineering, Eastern Barcelona School of Engineering, EEBE, Technical University of Catalonia (UPC), BarcelonaTech, E-08019 Barcelona, Spain

Deadline for manuscript submissions

closed (31 March 2022)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/68167

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).