

Special Issue

Advanced Power Generation and Conversion Systems, 2nd Edition

Message from the Guest Editors

This Special Issue follows the publication of the first volume focusing on “[Advanced Power Generation and Conversion Systems](#)”. The main aim of this Special Issue is to obtain a complete overview of advanced materials, devices, technologies, and control logics in terms of power generation and conversion systems. The topics of interest include, but are not limited to, the following:

- H2-based generation;
- On-shore and off-shore wind generation;
- Hydropower;
- Multi-vector generation;
- Cogeneration;
- Tri-generation;
- Biomass;
- V2G;
- Storage (Li-ion, SuperCap, Flow batteries, hybrid);
- Nuclear generation;
- Advanced materials for power generation;
- HVDC systems;
- Statcom systems;
- Solid state transformers;
- Grid-forming inverters;
- Conversion interface;
- Advances materials and solution for power converters;
- Planning, management methodology;
- Control logics
- Load and generation forecasting;
- Power systems cybersecurity;
- Virtual inertia provision.

Guest Editors

Dr. Giovanna Adinolfi

Dr. Maria Valenti

Prof. Dr. Giorgio Graditi

Deadline for manuscript submissions

closed (15 June 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/205128

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 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).