

Special Issue

Power Electronics, Renewable Energy and Advanced Energy Management Systems

Message from the Guest Editors

Today, the world is advancing towards creating a model of a sustainable global energy system to try to stop climate change. The energy transition towards an electricity generation model based on renewable energies and the progressive implementation of electric vehicles are necessary. Power electronics refers to the application of electronic devices to control and transform electrical energy. This technology is essential for the operation of renewable energy systems. In addition, the development of intelligent control and energy management strategies allows for the coordination of generation and flexible demand, improving the efficiency and stability of modern power systems. The topics to be addressed in the Special Issue include, but are not limited to, the following:

- Power electronics in renewable energy sources.
- Electrical energy efficiency in industry, buildings, transmission and distribution, etc.
- Modeling, simulation, and control of power electronic converters.
- High/Medium-voltage DC systems.
- Renewable energy conversion systems: design, modelling, control, and integration into modern power systems.
- Power electronics and control in microgrids.

Guest Editors

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Deadline for manuscript submissions

31 May 2026



Electronics

an Open Access Journal
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Impact Factor 2.6
CiteScore 6.1



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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

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