

## Special Issue

# Power Electronics and Renewable Energy System

### Message from the Guest Editor

At present, we must construct a sustainable global energy system to stop climate change. In this sense, the electricity and transport sectors play an important role. The transition towards an renewable energies and the progressive implementation of electric vehicles are necessary. The topics to be addressed in the Special Issue include (but are not limited to):

- Power electronics in renewable energy sources.
- Power flow control and optimization.
- Electrical energy efficiency in industry, buildings, transmission and distribution, etc.
- Modeling, simulation and control of power electronic converters.
- Analysis of the uncertainty generated by renewable sources and electric vehicles.
- High/Medium-voltage DC systems.
- Grid planning with large-scale renewable energy resources.
- Renewable energy conversion systems: design, modelling, control and integration to modern power systems.
- Power and energy quality in electric systems with renewable energy resources.
- Power electronics and control in microgrids.

### Guest Editor

Dr. Francisco Javier Ruiz-Rodríguez

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### Deadline for manuscript submissions

closed (30 September 2025)



## Electronics

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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.

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### Editor-in-Chief

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