Special Issue

Advance Research on Power Electronics for Sustainable Energy Conversion Systems

Message from the Guest Editors

Modern energy conversion systems are important in transition to greener, smarter, and sustainable development. Recent advances in power electronics contribute to the optimization of energy conversion, electric supply reliability, environmental impact, and smart public services involving the Internet of things and sensors. The SI aims to attract papers and review articles proposing advances in power electronics for sustainable energy conversion systems. Topics include, not limited to:

- Renewable energy conversion systems; design, modelling, control and integration to modern power systems
- Energy conversion systems for energy storage; batteries, fuel cells, supercapacitors, flywheels, new trends and concepts
- (Smart) Microgrids; grid-tied/standalone solutions, energy management
- Efficient public transportation systems; all-electric vehicles, aircrafts, trains, and ships, electric vehicle charging strategies and techniques, vehicle-to-grid
- Energy harvesting for smart applications, wireless power transfer for Distributed Energy Sources
- Power electronic concepts for thermoelectric applications; heat recovery systems
- Power electronic systems for smart buildings and NZEBs

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Deadline for manuscript submissions

closed (30 September 2019)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.6 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2025).

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