

Special Issue

Enhancing Sustainable Energy Applications through Innovative Power-Electronic Technologies

Message from the Guest Editor

Recent developments in ICT, power electronics, control architectures, artificial intelligence, internet of things, etc., can help us to more effectively achieve sustainable energy applications and strengthen grid resilience. The main goal of Special Issue is to discover state-of-the-art R&D results in the inventions and applications of enhancing sustainable energy applications through innovative power-electronic technologies. The main topics are related, but not limited, to the following:

- Power-electronic topologies and control schemes for sustainable energy applications;
- Energy harvesting from sustainable energy;
- Microgrid control and protection;
- Virtual inertia control strategies;
- Energy storage system applications;
- V2G and G2V of electric transportation;
- Solid-state transformer for grid flexibility;
- Cyber-physical systems for grid resilience.

Guest Editor

Prof. Dr. Jen-Hao Teng

Department of Electrical Engineering, National Sun Yat-Sen University, Kaohsiung 80424, Taiwan

Deadline for manuscript submissions

closed (31 May 2023)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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