

## Special Issue

# Future Development in Wireless Power Transfer Technology for Internet of Things (IoT) in Smart Grid

### Message from the Guest Editors

Smart grids are electrical energy networks, whereas the Internet of Things (IoT) is a communication network that will be able to better support electricity generation and distribution networks in the near future. New advances in wireless power transfer (WPT) promise to link the two networks, allowing for the intelligent integration of power grids and communication networks. Thus, it is with great pleasure that we present this Special Issue, “Future Development in Wireless Power Transfer Technology for Internet of Things in Smart Grid”. We are inviting original manuscripts presenting recent advances in this area, placing special emphasis on the following topics:

- New and existing improvements for inductive and capacitive power transfer (IPT/CPT) techniques and methodologies;
- Internet of Things (IoT) for WPT;
- Communication systems for WPT;
- WPT with smart grid technology;
- Inverter/converter designs and controls for wireless power applications;
- Highly resonant coupling topologies;
- Applications in special marine/air/space environments and other complex scenarios, i.e., WPT systems for coal mines and oil extraction;
- V2G WPT technology;

### Guest Editors

Dr. Fengwei Chen

Dr. Hongsheng Hu

Dr. Lei Zhao

Dr. Hao Feng

Dr. Xiaoming Zhang

### Deadline for manuscript submissions

closed (15 December 2023)



## 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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