# **Special Issue**

# Application and Design of Power Electronics Converters for Electric Vehicle Charging

### Message from the Guest Editor

The purpose of this Special Issue is to collate innovative research on power electronics solutions for electric vehicle (EV) charging. To address recent breakthroughs in power electronics technology for EV charging, the following characteristics must be explored in depth: high power efficiency, high power density, high reliability, and cost competitive. This Special Issue welcomes the submission of manuscripts for devices, circuits, and control techniques for applications of power electronics converters in EV charging. The topics of interest include but are not limited to the following:

- Power converter application for EVs (driving, charging, and storage);
- Power semiconductor utilization for EVs (wide bandgap device, driving circuit);
- Power converter design for EVs (multilevel converter, high-frequency converter);
- Power converter control for EVs (charging strategy, system diagnosis).

### **Guest Editor**

Prof. Dr. Woo-Young Choi

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### Deadline for manuscript submissions

closed (15 October 2024)



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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 guest-edited by leading experts in selected topics of interest.

### Editor-in-Chief

Prof. Dr. Flavio Canavero

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

