

## Special Issue

# Electric Vehicles in Smart Grids

### Message from the Guest Editors

This Special Issue aims to establish a bridge between the present and future perspectives of EVs in smart grids, joining original contributions from different perspectives, including academic scientists and researchers, and professional communities. Topics of interest include but are not limited to the following:

- Unified EV charging systems with renewable energy sources and energy storage systems;
- Innovative operation modes for EVs considering on-grid and off-grid scenarios;
- EV operation as a power conditioner for smart grids;
- Advanced EV battery chargers considering on-board and off-board technologies;
- Innovative EV battery chargers employing emerging technologies of power electronics;
- EV integration in smart homes or microgrids as smart grid enablers;
- EV charging systems in industrial, commercial, and residential scenarios;
- EV integration as a contribution for energy control and decision, and demand response;
- New contributions for EV propulsion systems;
- EV wireless power transfer (WPT) systems in smart grids.

For further details of this special issue, please click [here](#).

---

### Guest Editors

Dr. Vítor Monteiro

Algoritmi Research Centre, Department of Industrial Electronics,  
University of Minho, 4800-058 Guimarães, Portugal

Prof. Dr. Joao L. Afonso

Department of Industrial Electronics, School of Engineering, University  
of Minho, 4800-058 Guimaraes, Portugal

---

### Deadline for manuscript submissions

closed (30 April 2020)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/si/23237](https://mdpi.com/si/23237)

*Electronics*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## 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

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and Systems Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2024).