

## Special Issue

# Fast-Charging Station for Electric Vehicles: Challenges and Issues

### Message from the Guest Editors

Papers are solicited and cover aspects of EV charging infrastructure and service, including the following topics and any other relevant topics that may not be directly specified.

- Planning of EV (fast) charging infrastructure;
- Fast charging standard and policy;
- EV smart charging scheduling;
- Fast charging hardware and equipment;
- Data analytics for charging infrastructure and service;
- Battery swapping and business model;
- EV charging demand forecasting;
- Power grid interaction of (fast-) charging stations;
- Charging pricing mechanism design;
- Smart charging for renewable energy integration;
- Power and transport network nexus;
- Business models for charging infrastructure development;
- Impact of charging demand on distribution network;
- Intelligent transportation system with fast charging station;
- Grid support for the fast-charging station;
- Distributed energy resource scheduling and aggregation.

---

### Guest Editors

Dr. Tao Chen  
Dr. Xiangjun Quan  
Dr. Yuanshi Zhang

---

### Deadline for manuscript submissions

closed (30 June 2025)



## World Electric Vehicle Journal

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.6  
CiteScore 5.0



[mdpi.com/si/178960](https://mdpi.com/si/178960)

*World Electric Vehicle Journal*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[wevj@mdpi.com](mailto:wevj@mdpi.com)

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

[wevj](https://wevj.mdpi.com)





# World Electric Vehicle Journal

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.6  
CiteScore 5.0



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



## About the Journal

### Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

---

### Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

MOBI–Electromobility Research Centre, Department of Electrical Engineering and Energy Technology, Faculty of Engineering Sciences, Vrije Universiteit Brussel, 1050 Brussel, Belgium

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q2 (Automotive Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).