

## Special Issue

# Data Exchange between Vehicle and Power System for Optimal Charging

### Message from the Guest Editors

The data sharing between charging/discharging electric vehicles and power systems is important for a successful interaction of the vehicles with the grid. In the near future, we will likely see different types of electrified vehicles on the market, new designs in propulsion systems, and smart charging strategies for different applications and in different environments. In this context, we welcome you to submit manuscripts in areas such as, but not limited to:

- Data exchange between electric vehicles and power systems.
- Data sharing when implementing different charging strategies.
- Interaction between the motor and the battery system with respect to, e.g., regenerative charging.
- Vehicle-to-grid (V2G), vehicle-to-everything (V2X), etc., including pros and cons. Smart charging strategies, algorithms, and charging standards.
- Energy system modelling, including, e.g., renewable energy systems, FEM or real-time simulations, and experimental work.
- Energy management systems.
- Security and safety aspects.
- Equipment and measurement systems for vehicle-grid interaction.

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### Guest Editors

Dr. Jennifer Leijon  
Dr. Boel Ekergård  
Dr. Valeria Castellucci

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### Deadline for manuscript submissions

closed (30 June 2024)



## World Electric Vehicle Journal

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## 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.

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### Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

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#### Journal Rank:

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#### 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).