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Data Exchange between Vehicle and Power System for Optimal Charging

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Deadline for manuscript
submissions:

closed (30 June 2024)



mdpi.com/si/140098

Message from the Guest Editors

Dear Colleagues,

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.

Special Issue



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Message from the Editor-in-Chief

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