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# **Grid-Interactive Electric and Hybrid Electric Vehicles**

Guest Editor:

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### **Message from the Guest Editor**

Electric and plug-in hybrid electric vehicles produce significantly lower amounts of noise and greenhouse gas emissions than conventional fossil fuel-powered vehicles. In addition to these benefits, vehicles powered through performance electricity feature and efficiency improvements. To this end, there is an ongoing trend of electric propulsion as a replacement to engine propulsion. However, high-efficiency charging and the management of battery storage challenge global engineers and experts. In parallel, the smart control of charging and/or even discharging will greatly facilitate the development of grid operators and thus enable a large coordination of electric vehicles. This Special Issue focuses on the recent developments in electric vehicles, particularly related to power and energy. It aims to lay a foundation for the further development of electric and hybrid electric vehicles in future renewable-dominated power systems. Topics of interest to this Special Issue include, but are not limited to, the following:

- Power architectures of electric drivetrain:
- Multilevel converters in electric vehicles;
- Autonomous driving systems and enabling components.











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### **Editor-in-Chief**

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## **Message from the Editor-in-Chief**

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