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Wireless Power Transfer System for Electric Vehicles

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Message from the Guest Editors

Dear Colleagues,

Wireless power transfer (WPT) refers to the technologies that enable powering a device without the need for being connected through a cable to the grid. One of the application sectors of WPT is related to electric vehicles (EV). With this technology, EVs do not only benefit from simplified user intervention but they can also extend their autonomy by dynamically charging their batteries while the vehicle is moving.

This Special Issue focuses on the designing, testing, and evaluation of inductive/resonant WPT systems for EVs. In defining EVs, we include buses, trains, cars, bicycles, boats, scooters or drones. Depending on the requirements of the vehicle, the power electronics, their control, and the design of the reactive components are adapted. Thus, papers showing the challenges of designing wireless EV chargers for a specific application are welcome. Complementary technologies are also of interest, as they play an important role in commercial wireless chargers...

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Special Issue



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Message from the Editor-in-Chief

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