



Inductive Charging for Electric Vehicles: Towards a Safe and Efficient Technology

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Message from the Guest Editors

Inductive Power Transfer (IPT) or Wireless Power Transfer (WPT) for the charging of electric vehicles is an opportunity for the widespread adoption of electric vehicles in public and private transports. The vehicle battery represents an important cost item and also a significant weight to carry for the vehicle.

This Special Issue aims to address the subjects of efficiency, safety, impact and perspectives of IPT charging systems for vehicles. In particular, all the following studies are welcome: experimental studies on IPT systems or archetypes; studies conducted through mathematical and numerical models; studies concerning the modeling of IPT systems as a whole, or limited to the coils arrangement; studies focusing on the architecture and or efficiency of the ac-dc and dc-ac conversion systems. Furthermore, studies concerning magnetic field emissions, dosimetry and/or implanted medical devices will be considered.





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