Special Issue

EMC Issues and EMF Exposure in Wireless Power Transfer Systems for e-Mobility

Message from the Guest Editors

Wireless Power Transfer (WPT) technology will play an important role in the near future in the growth of electric mobility. This technology basically allows the transmission of electrical energy from a power source to an electrical vehicle (EV) across an air gap without using any galvanic connection. The advantages of adopting this technology compared to the normal plug connection are safer and more comfortable. Currently, the most widespread systems are based on stationary wireless charging systems for the onboard battery. In stationary WPT the EV can only be recharged when it is parked. This special issue focuses on algorithms, models, methods, technologies, standards, and applications for the characterization and mitigation of the electromagnetic field emission produced by stationary and dynamic WPT systems for e-mobility. electric vehicle (EV)□ e-mobility electromagnetic compatibility (EMC)□ the electromagnetic field (EMF)□ safety inductive power transfer (IPT)□ magnetic field□ power electronics□power quality□shielding□ standardization of wireless power transfer (WPT)

Guest Editors

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Deadline for manuscript submissions

closed (29 April 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/160737

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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