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Wireless Charging Technology and Energy Management for Electronic and Electric Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (20 November 2024)

Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to report the latest theoretical, practical, and industrial progress on wireless charging for electric and electronic devices. The topics of interest include but are not limited to:

- High-power wireless charging technologies for electric vehicles, electric bikes, etc.;
- Mid-power wireless charging technologies for robots, drones, mobile phones, etc.;
- Low-power wireless charging or energy harvesting technologies for medical devices, IoT sensors, etc.;
- Design of magnetic coils and capacitive plates for wireless power transfer;
- Design of resonators for resonance-based wireless power transfer;
- Design of AC/DC (RF/DC) converters and DC/AC (DC/RF) inverters;
- Design of power management systems for wireless charging;
- Health and safety of wireless charging, such as foreign object detection and electromagnetic compatibility issues;
- Simultaneous wireless information and power transfer (SWIPT).

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Message from the Editor-in-Chief

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