

Special Issue

Advances in Wireless Power Transfer

Message from the Guest Editors

Wireless Power Transfer (WPT) has emerged as a key enabling technology for next-generation intelligent systems, supporting the rapid development of electric vehicles, implantable medical devices, industrial automation, underwater robotics, and the Internet of Things (IoT). With the growing demand for high-power, long-distance, and high-efficiency wireless charging, innovative breakthroughs in system design, control algorithms, energy management, and electromagnetic compatibility are urgently required. This Special Issue aims to showcase cutting-edge research contributions, novel theories, engineering solutions, and emerging applications in the field of wireless power transfer. Topics of interest include, but are not limited to, the following:

- Inductive, capacitive, and microwave- or laser-based WPT technologies;
- High-efficiency coils, compensation topologies, and power converters;
- Magnetic field optimization, EMI/EMC, safety, and standardization;
- Dynamic, multi-receiver, or long-distance WPT systems;
- WPT for IoT, electric transportation, biomedical devices, and underwater systems.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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