

## Special Issue

# Emerging Trends in Wireless Power Transfer for IoT, EVs, and Smart Infrastructure

### Message from the Guest Editors

This Special Issue aims to provide a platform for the latest advancements and innovations in wireless power transfer (WPT) technologies and explore a wide range of topics, including system design, circuit development, and the integration of novel materials to enhance efficiency, power density, and scalability. Contributions that address the challenges of WPT implementation in Internet of Things (IoT) devices, electric vehicles (EVs), and smart infrastructure are of particular interest. This Special Issue will also focus on emerging applications, such as dynamic charging systems for EVs, wireless energy networks for sensor nodes, and large-scale WPT solutions for urban environments. Research on advanced modeling techniques, electromagnetic compatibility, energy harvesting, and safety standards is encouraged, as are studies on interdisciplinary approaches that combine WPT with energy storage, artificial intelligence, and machine learning. Cutting-edge insights into prototype demonstrations, pilot projects, and real-world deployments, bridging the gap between theoretical research and practical applications, are also of interest.

### Guest Editors

Dr. Songyan Niu

Prof. Dr. Liyan Zhang

Dr. Ze Zhou

Dr. Jian Guo

### Deadline for manuscript submissions

15 October 2025



## Electronics

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### 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 guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

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