# **Special Issue**

# Advanced Wireless Charging Technologies for Intelligent Transportation Systems

Message from the Guest Editors

This Special Issue of Vehicles, entitled "Advanced Wireless Charging Technologies for Intelligent Transportation Systems", invites original research articles, comprehensive reviews, and practical case studies.

Topics of interest may include, but are not limited to, the following:

Static and dynamic WPT systems for road and offroad vehicles;

Innovative coil and pad designs, metamaterials, compensation topologies, and shielding techniques for enhanced coupling;

Control strategies and communication protocols for power-data co-transfer and adaptive tuning;

Electromagnetic compatibility, thermal management, and safety certification;

Bidirectional (vehicle-to-grid and vehicle-to-vehicle) energy exchange;

Standardized testing methodologies, performance benchmarks, and interoperability frameworks;

Lifecycle assessment, economic analysis, and sustainability metrics;

Pilot deployments, infrastructure planning, and real-world performance evaluations.

We look forward to receiving your high-quality submissions that will push the boundaries of wireless charging in ITS and accelerate the transition to a cleaner, smarter future in mobility.

### **Guest Editors**

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## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.1 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).

