

Special Issue

Emerging Technologies in Wireless Power and Energy Transfer Systems

Message from the Guest Editors

Wireless power transfer (WPT) technology is revolutionizing a wide range of modern applications, from electric vehicles and industrial automation to consumer electronics and autonomous drones, by providing exceptional convenience, safety, and reliability. As the demand for more efficient and resilient WPT systems accelerates, new challenges emerge. These include the pursuit of greater transfer efficiency, extended transmission ranges, and enhanced robustness in environments with multiple sources of interference. This Special Issue welcomes pioneering research in this area and innovative solutions that address these challenges. We seek contributions from fields such as dynamic decoupling mechanisms, advanced coupling and compensation networks, adaptive control methods, and novel system designs. Submissions that tackle practical challenges, introduce breakthrough solutions, or bring forward disruptive innovations in WPT technology are highly encouraged.

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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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