

Special Issue

Wireless Power Transfer Systems and Applications

Message from the Guest Editors

The main objective of this Special Issue, titled “Wireless Power Transfer Systems and Applications”, is to focus on the most recent achievements in wireless power transfer systems. For this, one seeks advancement in the simulation/design of modern electric systems for wireless power transfer with applications for e-mobility, consumer electronics, smart grids, biomedical purposes, and others. Topics of interest include, but are not limited to, the following:

- Circuit theory in wireless power transfer systems (WPTSs);
- Parameter extraction for magnetic coupled inductors;
- Finite element analysis used in WPTS;
- Analysis, design and optimization of WPTS;
- Frequency splitting and bifurcation phenomena in WPTS;
- S-parameters and their use in the analysis of wireless electromagnetic energy transfer systems;
- Coupled mode theory in WPTS;
- Numerical methods in electrical engineering;
- Near electromagnetic field numerical computation;
- Static and/or dynamic charging.

Guest Editors

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).