

Special Issue

Wireless Power Transfer Modelling Methods and Related Applications

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the Modelling theories, methods and platforms of WPT systems. Topics of interest for publication include, but are not limited to:

- Equivalent circuit models of WPT;
- Electromagnetic field Modelling and simulations for inductive or magnetic resonance systems;
- Coil design and optimization models;
- Channel Modelling for microwave propagation of remote WPT systems;
- mmWave, Terahertz and reconfigurable intelligent surface (RIS) propagation Modelling for WPT;
- Optimization methods based on the WPT models;
- AI-based Modelling and related control methods;
- Communication Models of simultaneously wireless information and power transfer systems;
- Theoretical models of wireless powered localization network;
- New models for WPT IC design;
- Simulation software for WPT systems.

Look forward to your contributions.

Guest Editors

Dr. Yubin Zhao

Dr. Yangping Zhao

Dr. Xiaofan Li

Deadline for manuscript submissions

closed (15 February 2024)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/169426

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



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

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).