Special Issue

Wireless Power Transfer and Its Applications

Message from the Guest Editors

Wireless power transfer has been successfully applied to medical implants, mobile phones, electric vehicles, railway applications, etc. In the next decade, new technologies in stationary/dynamic and bi-directional wireless power transfer (WPT) will revolutionize the energy charging and power supply industry. This Special Issue will include articles that address state-of-the-art technologies and new developments for wireless power transfer, including, but not limited to, compensation circuits, coupler design, soft-switching techniques, control strategies, foreign objective detections, etc. In addition, articles which discuss the applications of WPT, from a few milliwatts to several hundred kilowatts, would be of particular interest. Topics are including, but not limited to, the following topics:

- Wireless charging for electric vehicles, railway applications, and automatic guided vehicles;
- Wireless chargers for portable electronic devices;
- Wireless power transfer for unmanned aerial vehicles;
- Wireless power transfer for biomedical implant devices;
- Wireless power supply for the Internet of things (IoTs) and sensors;
- Dynamic wireless power transfer;

Guest Editors

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Deadline for manuscript submissions

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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 guest-edited 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 16.8 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).

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