

Special Issue

Design and Applications of Wireless Power Charging Systems

Message from the Guest Editors

Wireless charging can provide both a high reliability and convenience regarding the charging process because it does not cause sparking or short circuits, and the precise positioning of a receiving device is not necessary. Wireless charging can offer one more additional feature—dynamic power transfer that can charge the batteries of objects (e.g., electric vehicles) while moving. This Special Issue focuses on original research papers regarding the design and application of high-efficiency, inductive and capacitive charging systems. Review articles on the design and applications of wireless charging systems are also welcome.

Potential research topics include, but are not limited to:

- The modeling and design of high-efficiency and high-power-density inductive and capacitive wireless charging systems;
- Applications of wireless charging systems;
- The dynamic wireless charging of electrical vehicle batteries;
- Design issues with wireless chargers operating in the MHz range.

Guest Editors

Dr. Janis Zakis

Dr. Deniss Stepins

Dr. Alon Kuperman

Deadline for manuscript submissions

closed (20 June 2023)



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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).