



Wireless Power Transfer and Its Applications

Guest Editors:

Dr. Yong Li

School of Electrical Engineering,
Southwest Jiaotong University,
West Section, High-Tech Zone,
Chengdu 611756, China

Prof. Dr. Ruikun Mai

School of Electrical Engineering,
Southwest Jiaotong University,
Chengdu 611756, China

Dr. Jiefeng Hu

School of Engineering,
Information Technology and
Physical Sciences, Federation
University Australia, Mount
Helen, VIC 3353, Australia

Deadline for manuscript
submissions:

closed (1 December 2021)

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 object 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;





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)