



an Open Access Journal by MDPI

## New Insights of Wireless Power Transfer

Guest Editors:

**Dr. Bo Yang**

Research Institute for  
Sustainable Humanosphere,  
Kyoto University, Kyoto, Japan

**Dr. Daotong Li**

School of Microelectronics and  
Communication Engineering,  
Chongqing University, Chongqing  
400044, China

**Dr. Peng Mei**

Department of Electronic  
Systems, Aalborg University, 9220  
Aalborg, Denmark

Deadline for manuscript  
submissions:

**15 February 2025**

### Message from the Guest Editors

Wireless power transfer (WPT) technology has penetrated the cellular phone charging market over the recent decade, and it is an emerging technology for charging electric vehicles. To promote a greater understanding of research work in WPT, this Special Issue, titled “New Insights of Wireless Power Transfer”, will include key developments in the theory of WPT, which will be verified through simulations and/or experiments.

We invite original manuscripts presenting recent advances in this area, including the following topics:

- Wireless power transfer systems;
- simultaneous wireless information and power transfer;
- Microwave power transmission;
- Power harvesting;
- Microwave rectifier and rectenna;
- Millimeter-wave and terahertz antennas;
- MIMO antenna;
- High-gain antennas;
- Compensators/decoupling networks;
- Dynamic beam focusing;
- Wireless power transfer efficiency;
- Wireless power transfer control;
- Misalignment and distance tolerance;
- Space-based solar power.



[mdpi.com/si/211813](https://mdpi.com/si/211813)



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](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)