

Special Issue

New Insights into Wireless Power Transmission Systems

Message from the Guest Editors

This Special Issue focuses on the latest advancements and research breakthroughs in Wireless Power Transmission (WPT) systems. As WPT technology continues to evolve, it holds significant potential for transforming various industries, enabling the efficient and contactless transfer of energy over distances. This Special Issue explores key innovations, including enhanced power transfer efficiency, novel materials, system integration, and emerging applications. Key topics covered include, but are not limited to:

- Innovative WPT techniques: New methodologies to improve efficiency and range.
- Power management and safety: Advances in optimizing power flow and ensuring the safety of users and devices.
- Energy harvesting: Integration of WPT systems with energy harvesting technologies for sustainable and autonomous power solutions.
- System integration and miniaturization: Improvements in compact and scalable designs for consumer and industrial use.
- Applications and future trends: Emerging uses and future directions for WPT research.
- Electromagnetic Environment Analysis: Focusing on optimizing the compatibility of WPT systems within various electromagnetic environments.

Guest Editors

Dr. Michele Quercio

Department of Industrial, Electronic and Mechanical Engineering, Roma Tre University, 00146 Rome, Italy

Prof. Dr. Antonino Laudani

Department of Electrical Engineering and Computer Science, University of Catania, 95125 Catania, Italy

Deadline for manuscript submissions

closed (20 April 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/217984

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)