

## Special Issue

# Design, Modelling and Analysis for Wireless Power Transfer Systems

### Message from the Guest Editors

Wireless Power Transfer (WPT) and ambient energy harvesting (EH) technologies are undergoing explosive growth, fundamentally reshaping power delivery paradigms across diverse modern applications. Although WPT has made significant progress in recent years, it still faces numerous challenges. These include reductions in transmission efficiency due to misalignment between the receiver and transmitter, decreased energy conversion efficiency caused by changes in load impedance, and the difficulty of achieving high-efficiency power transfer underwater, among others. This Special Issue will showcase cutting-edge research accelerating breakthroughs in wireless power transfer and ambient energy harvesting. Topics of interest for publication include, but are not limited to, the following:

- Advanced WPT Techniques
- Ambient Energy Harvesting
- Simultaneous Wireless Information and Power Transfer (SWIPT) architectures and protocols, as well as wireless scattering communication leveraging WPT infrastructure
- Components and Circuits for wireless power transfer

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### Guest Editors

Dr. Fei Cheng

Dr. Ce Wang

Dr. Zhiwei Zhang

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### Deadline for manuscript submissions

20 January 2026



## Energies

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### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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