

## Special Issue

# Magnetically Coupled Wireless Power Transfer System

### Message from the Guest Editor

Currently, wireless power transfer (WPT) has been extensively studied in various utilizations. However, the efficiency and reliability of WPT can be greatly affected by the external environment, which restricts the wide use of the technology. Especially when the system is close to lossy medium, the efficiency of power transmission will be a complex function of dielectric conductivity, dielectric constant and system parameters. With the aim to solve the above problem, many researches focus on analysis of propagation characteristics of electromagnetic wave in lossy medium, designing a novel system topology, studying electromagnetic metamaterials and intelligent control methods.

This Special Issue will attempt to cover the recent advances in analysis and rational design of magnetically coupled wireless power transfer systems, concerning the design and use of new materials, the analysis of electromagnetic wave propagation characteristics in lossy medium, the design of power transmission topology and methods to improve the efficiency and reliability of the system.

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### Guest Editor

Prof. Dr. Panbo Liu

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### Deadline for manuscript submissions

closed (10 July 2022)



## Applied Sciences

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### Editor-in-Chief

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