Special Issue

Advanced Electromagnetic Energy Conversion and Wireless Power Transfer Technologies

Message from the Guest Editors

Electromagnetic energy conversion and transfer have significantly improved the flexibility of electricity usage. Advanced electromagnetic energy conversion and wireless power transfer have become one of the focuses and interests in both research and industry. Despite the advantages and benefits, new challenges arise regarding its efficiency, parameter tolerance, transmission distance, costs, etc. We would like to invite you to submit original research and review articles to the Special Issue of *Applied Science* on the topics of "Advanced Electromagnetic Energy Conversion and Wireless Power Transfer Technologies". This Special Issue will include, but is not limited to, the following topics: 1. Electromagnetic energy harvesting; 2. Electromagnetic-based converters and circuits; 3. Signal detection; 4. Inductive/Capacitive power transfer; 5. Dynamic/Over-the-air wireless charging; 6. Multi-transmitter/Multi-receiver wireless power transfer system; 7. Simultaneous wireless power and data transfer; 8. Electromagnetic compatibility and biological effects; 9. Advanced electromagnetic materials; 10. Designs and applications of electromagnetic energy conversion and wireless power transfer.

Guest Editors

Dr. Changsong Cai

Dr. Lei Zhao

Dr. Pengcheng Zhang

Prof. Dr. Adrian Ioinovici

Deadline for manuscript submissions

closed (30 April 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/121723

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

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

MDPI