Special Issue

Power Converters and Control Techniques

Message from the Guest Editors

With the appeal of carbon neutrality, research on renewable energy systems, energy storage systems, electrical transports, and hybrid AC/DC microgrids has steadily increased in recent years. To boost the performance of these systems, power converters and control techniques require more sufficient studies for high efficiency, high reliability, high density, and low cost. Thus, this Special Issue aims to collect research achievements within the scope of power converters and control techniques. Topics of interest in this Special Issue include, but are not limited to:

- New topologies, including dc–dc converters and ac–dc converters with high efficiency, high density, and low cost, especially with the new emerging devices.
- New modulation schemes for high power quality and high efficiency.
- Advanced dynamic control strategies for high robustness and high reliability of power converters.
- Fault diagnosis and fault tolerance techniques of power converters.
- Soft start-up and hot-swap operations of power converters.

Guest Editors

Dr. Nie Hou

Dr. Xialin Li

Prof. Dr. Jinwei He

Deadline for manuscript submissions

closed (31 October 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/142213

Applied Sciences
Editorial Office
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 5.5

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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