

IMPACT FACTOR 3.2



an Open Access Journal by MDPI

# **DC/DC Converters Optimized for Energy Storage in Smart Grids**

Guest Editors:

### **Dr. Chuyang Wang**

College of Energy and Electrical Engineering, Hohai University, No. 1 Xikang Road, Gulou District, Nanjing 210098, China

#### Dr. Jia Liu

Department of Automation, Hangzhou Dianzi University, Hangzhou 310018, China

Deadline for manuscript submissions:

25 August 2025

## **Message from the Guest Editors**

During the last decade, smart grids have improved security defense capabilities, flexibility, and compatibility through intelligent means in order to strengthen the development, transmission, and consumption of clean energy, as well as to counter the increasingly frequent natural disasters and external interference. Energy storage technology is a crucial component of this process.

This Special Issue aims to enhance energy storage utilization in and the fault-crossing capability of smart grids by optimizing DC/DC converters, which are important components of energy storage technology.

The topics of interest for publication include, but are not limited to:

- the optimization of topologie;
- the control and fault-crossing capability of DC/DC converters;
- the modeling, analysis, and design of DC/DC converters for energy storage in smart grids;
- control optimization.











an Open Access Journal by MDPI

### **Editor-in-Chief**

### Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

# **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.

### **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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

#### **Contact Us**