Special Issue

New Topologies of DC-DC Converters in Power Systems

Message from the Guest Editor

We are inviting submissions to a new Special Issue of Electronics, entitled "New Topologies of DC-DC Converters in Power Systems". With the large-scale integration of renewable energy sources (RESs), such as wind power and photovoltaics in the power system, as well as the rapid development of DC loads such as electric vehicles and data centers, there are increasing numbers of DC systems or links in the power system. DC/DC converters are crucial equipment for power interconnection and voltage transformation in the DC sections of the power system, especially in systems such as offshore wind power systems, all-DC systems, DC distribution networks, energy storage systems, electric vehicles, DC microgrids, etc., where new DC/DC application scenarios and technologies are rapidly developing. This Special Issue will include recent developments regarding the topology, control, operation, protection, and application of DC/DC converters in the power system.

Guest Editor

Dr. Qianhao Sun

Department of Electrical Engineering, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions

closed (15 July 2024)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/192349

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

