Special Issue

Trends and Prospects in Analysis and Control of Power Electronics

Message from the Guest Editor

This Special Issue aims to gather research on novel power electronic converters, novel control methods for power electronic systems, analysis of bifurcation and chaos in the power electronic systems, as well as the applications of new circuit elements for power electronic systems. Stability and dynamic characteristics of power electronic systems are also required. Prospective authors are invited to submit original contributions, survey papers, or tutorials for publication in this Special Issue. Topics of interest include but are not limited to:

- Topology of power electronic converter;
- Modeling and analysis of power electronics;
- Bifurcation and chaos in power electronics;
- Control methods for power electronics;
- Fractional-order power electronics;
- Fractional-order control and its application in power electronics;
- Power electronics with memristor, meminductor, or memcapacitor.

Guest Editor

Dr. Faqiang Wang

State Key Laboratory of Electrical Insulation and Power Equipment, School of Electrical Engineering, Xi'an Jiaotong University, Xi'an 710049, China

Deadline for manuscript submissions

closed (31 January 2023)



Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



mdpi.com/si/88697

Energies MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 energies@mdpi.com

mdpi.com/journal/

energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



energies



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)