energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.2

Emerging Topics in Power Electronic Converters of Microgrids

Guest Editors:

Prof. Dr. Javier Muñoz Vidal
Department of Electrical Engineering, Universidad de Talca, Curicó 3340000, Chile

Dr. Jaime Rohten
Department of Electrical and Electronic Engineering, Universidad del Bío-Bío, Concepción 4051381, Chile

Dr. David Dewar
Department of Electrical and Electronic Engineering, The University of Nottingham, Nottingham, UK

Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances in power electronics for microgrids in aspects such as theory, modelling, control, new topologies, and algorithms to make the microgrid system work. The topics of interest for publication include, but are not limited to, the following:

- Power converter modelling for AC, DC, and AC–DC hybrid microgrids;
- Power converters control for AC, DC, and AC–DC hybrid microgrids;
- New topologies for power converters applied to microgrids;
- Grid integration through power electronics;
- Storage systems;
- Bidirectional DC/DC converters in DC microgrids;
- Renewable isolated microgrids;
- Power quality, reliability, and resilience;
- Trends in power converters;
- Predictive control for power converters in microgrids;
- Linear control for power converters in microgrids;
- Nonlinear control for power converters in microgrids;
- Green hydrogen systems;
- Trends in solar, wind, and marine energy power system;
- Electromobility and their impact on microgrids;
- Novel renewable energies and power topologies for microgrid applications.

mdpi.com/si/115614

energies

IMPACT FACTOR 3.0

CITESCORE 6.2

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
𝕏@energies_mdpi