

Special Issue

High Power Converters: Topologies, Control and Applications

Message from the Guest Editors

Demands of power conversion systems in high power applications are constantly changing, and research areas are evolving toward a wide range of voltage and power. The main challenge lies in developing high power converters and their controls in industrial and transportation applications, such as high voltage DC transmission, reactive power compensation, rail power conditioners, renewable energy conversion. These converters must be more efficient, reliable, and fault-tolerant to enable secure and high-quality operation while reducing maintenance and overall costs.

This Special Issue is intended to bring together innovative developments and future trends in power converter technologies and advanced control methods in high power applications.

Topics:

- high-power converter topologies
- advanced multilevel converters
- modular multilevel converters
- pulse width modulation schemes
- fault-tolerant converter topologies
- high voltage dc transmission
- reliability of high-power converters
- renewable energy systems

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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.

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