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High Power Converters: Topologies, Control and Applications

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

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

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