Special Issue

Advances in Power Electronics Technologies

Message from the Guest Editor

Power electronics is an enabling technology for power and energy processing. In addition to conventional power converters such as DC/DC, AC/DC, and DC/AC power conversions, power drivers for electrical machines and power system electronics are also part of the research work into power electronics. Recent power electronics has contributed extensively to green technology and electric mobility. We can also see numerous development in photovoltaic, wind power, tidal power, hydropower, nuclear, and new energy power processing. The electric vehicle needs advanced power electronics to process power for energy storage devices, chargers, and power motor drives. Applications can also be extended to road vehicles, vessels, and aircraft. Power electronics also contributes to robotic control for various servo drives and robotic control devices. Recently, aerospace and space technology has utilized power electronics for energy storage, solar cells, fuel cell, ion thrusters, and solar sailing. It is clear that power electronics is now an advanced technology for all types of power processing.

Guest Editor

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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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