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Review of Advanced Power Electronics Solutions

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Message from the Guest Editors

One of the greatest problems that the world is facing today is environmental pollution and the depletion of natural resources. It forces the development of different new green technologies. Renewable energy integration in AC residential grids, along with storage systems, is a hot topic of power electronics today. At the same time, the new tendency consists of the limitation of the injection of power from renewable sources to the AC grid. New challenges crop up. The DC grid and wireless power transform are new trends in power electronics that have to solve existing problems.

This Special Issue is devoted to the state of art review of novel or recently proposed power electronics solutions devoted to the arising power electronics trends. The main focus will be on the review of emerging solutions, their feasibility study through the acquisition of new knowledge in areas related to power circuit design, the control and implementation of advanced materials and active and passive components, and comparative analysis.



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Special Issue



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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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