Special Issue

Power Electronic Applications to Electric Vehicles, Renewable Energy Sources and Energy Savings

Message from the Guest Editors

As power electronics technology matures, its applications become essential to the transition towards greener, smarter, and sustainable development. In this context, recent advances in power electronics have contributed to the optimization of energy saving in all main industrial and social sectors. The aim of the present Special Issue is to attract original high-quality papers and review articles with major topics including but not limited to the following: New materials and methods for energy saving; Efficient public transportation systems; all-electric vehicles, aircrafts, trains, and ships, electric vehicle charging strategies and techniques, and vehicle-to-grid (V2G); (Smart) microgrids; grid-tied/standalone solutions, energy management; Smart city concepts; Energy harvesting for smart applications, wireless power transfer for distributed energy sources; Power electronic concepts for thermoelectric applications; heat recovery systems; Renewable energy conversion systems; design, modelling, control, and integration to modern power systems; Energy storage; batteries, fuel cells, supercapacitors, flywheels, and new trends and concepts.

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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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