

Special Issue

Power Electronics Technologies for Aerospace Applications

Message from the Guest Editors

This Special Issue aims to introduce a guideline of Power Electronics Technologies for Aerospace Applications, involving innovative contributions from academics, scientists, and researchers. The topics of interest are related, but not limited to:

- Light-weight and high-efficiency power converters;
- Power converters to deal with high dv/dt and di/dt operation;
- Digital and analogue control platforms for power converters. Monitoring, control, and protection of power converters;
- High-performance materials for coupling filters, cables, connectors, and cooling units of power converters;
- Power electronics for interfacing power generation systems and for power management;
- Innovative motor drivers for electric propulsion systems;
- Solid-state systems, circuits, and protections (to replace conventional electromechanical devices);
- Silicon carbide (SiC), gallium nitride (GaN), and high-electron mobility transistors (HEMTs) devices for aerospace applications;
- Space effects on wide-bandgap (WBG) power devices;
- Power Electronics systems for flight control;
- Energy storage technologies for aerospace applications (e.g., solid-state batteries);
- Power electronics for high reliability communication technologies.

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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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