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Advanced Frontiers for Power Electronics in Energy Conversion

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

The world's growing population creates the need for paramount efficient and sustainable, handling of energy. Power electronics have enabled efficient use of energy, and its techniques continue to expand its already large field of influence. This Special Issue is about the inroad that power electronics plays challenging traditional energy approaches that still prevail in some fashion and pushing to new horizons. Topics of interest for publication include but are not limited to:

- Ultra-efficient converter for microelectronics.
- Advanced application in power systems, including generation, transmission, and distribution.
- Residential power applications including lighting, high-efficient air conditioning, and water heaters
- Solid-state transformers
- Energy storage, including new batteries, controls, and PHM (Prognostic Health Management) techniques.
- Converter for telecom especially for 5G applications
- Power wireless transmission
- Power electronics in transportation including charging station
- A special power converter for emerging fields

Keywords: EV; energy storage; smart homes; microgrid; energy

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Message from the Editor-in-Chief

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