

# Topical Collection

## Advanced Control and Applications of Power Electronics and Power Converters

### Message from the Collection Editors

Power electronics systems have become an indispensable technology in modern society. A new generation of power electronics systems with high flexibility, power density, efficiency, and reliability are in high demand. Moreover, the growing use of power electronics systems in power grids has stimulated the research of converter technologies that are defining the structure and organization of future power grids.

- Advanced topologies and controls for power converters.
- Advanced modelling approaches for power converters.
- Active demand response via smart-load and electric-spring technologies.
- Power electronics for energy storage.
- Power electronics for renewable-energy generation.
- Diagnosis and fault-tolerant controls for power converters.

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### Collection Editors

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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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