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Solid State Physics in Advanced Power Semiconductors and Other Devices

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is a timely approach to survey recent progress in the area of advanced power semiconductors and other devices. The articles presented in this Special Issue will cover various topics from silicon to wide band gap materials, device design, numerical simulation, fabrication process, measurement, analysis, electrical characteristics at high temperature, and reliability. The scope is not just about the wide band gap devices. This also includes the silicon-based advanced power semiconductors, energy devices, solar cells, and nanoelectronics.

The Special Issue will cover (but not be limited to) the following topics:

- Advanced power semiconductors
- Solid state physics
- Numerical simulation
- Fabrication
- High voltage switch
- High current switch
- Wide band gap devices including III-V, 4H-SiC, and diamond
- Energy devices
- Solar cells
- Nanoelectronics, etc.



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Special Issue



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Message from the Editor-in-Chief

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