

## Special Issue

# Wide Bandgap Technologies for Power Electronics

### Message from the Guest Editors

Wide Bandgap (WBG) semiconductor technologies such as those based on Silicon Carbide and Gallium Nitride address high performance power conversion applications in the context of a fast-growing power electronics market. The higher critical electrical field of WBGs with respect to Silicon, which is today the most widely used semiconductor in power electronics systems, has allowed the introduction of novel devices with lower conduction and switching losses. Novel device-driving strategies and power circuits' optimizations are developing with the increased availability of WBG power electronics devices. They allow more compact, increasingly efficient, higher frequency power converters and require new packaging strategies with reduced parasitics. The objective of this Special Issue is to cover all research activities related to WBG and Ultra-WBG power electronics from materials, process development, devices, circuits and systems to applications and markets.

### Guest Editors

Dr. Julien Buckley

Dr. René Escoffier

Dr. Matthew Charles

### Deadline for manuscript submissions

closed (31 December 2021)



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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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