



## Volume II: Semiconductor Power Devices

Guest Editors:

**Dr. Alberto Castellazzi**

Power Electronics, Machines and Control Group, University of Nottingham, Nottingham, UK

**Dr. Andrea Irace**

Department of Electrical Engineering and Information Technologies, University of Naples Federico II, Naples, Italy

Deadline for manuscript submissions:

**closed (30 June 2019)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to gather contributions defining the state-of-the-art in Wide-band-gap (WBG) power device design, fabrication technology, packaging and thermal management, application and reliability validation: Original contributions and review papers alike are solicited in all relevant areas.

Dr. Alberto Castellazzi

Dr. Andrea Irace

*Guest Editors*

### Keywords

- Silicon carbide (SiC)
- Gallium nitride (GaN)
- Gallium Oxide (Ga<sub>2</sub>O<sub>3</sub>)
- Diamond (C)
- Semiconductor power devices
- MOSFETs
- HEMTs
- Power converters
- Power modules
- Packaging
- Thermal management/cooling
- Reliability





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)