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## Reliability of WBG-Based Power Electronic Circuits in Electric Vehicles

Guest Editors:

**Dr. Kamyar Mehran**

School of Electronics Engineering  
and Computer Science, Queen  
Mary University of London,  
London E1 4NS, UK

**Dr. Maher Al-Greer**

School of Computing,  
Engineering and Digital  
Technologies, Teesside  
University, Middlesbrough TS1  
3BX, Cleveland, UK

**Dr. Ozan Keysan**

Department of Electrical and  
Electronics Engineering, Middle  
East Technical University, Ankara,  
Turkey

Deadline for manuscript  
submissions:

**closed (30 December 2021)**

### Message from the Guest Editors

Dear Colleagues:

The emergence of wide bandgap (WBG) technology has provided designers with new features, such as high frequency operation (up to MHz range), more compact design, and higher temperature endurance (up to 150 °C). Considering each of these features, this technology is opening a new era for high-frequency power conversion, new automotive and aircraft technologies, and robust power electronics design in harsh climate environments, respectively. Additionally, reliable and robust performance has become a major pre-requisite in the new application of power electronics. Therefore, characterization of faults and monitoring device health are necessary in order to enable WBG-based power modules and devices to be employed in new power electronics applications. In this regard, reliable performance aspects require deep investigation to enable these technologies to be widely used in a new generation of power conversion.

This Special Issue aims to address some of the techniques, methodologies, and trends in characterization, monitoring, and elimination of probable faults in WBG-based power electronics circuits.



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# Special Issue



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## Editor-in-Chief

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

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

## Message from the Editor-in-Chief

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

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